

OFFICE USE ONLY	
FILING FEE	
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PROJECT NUMBER	

## Form 1

General Application Information					
1. Facility Name		County No.		Plant No.	
				Year Submitted	
Facility Street Address			County Name		
City	State	Mail (ZIP) Code		Facility Phone No. (       )	
Facility Mailing Address			Facility Fax No. (       )		
City	State		Mail (ZIP) Code		
Facility Contact Person					
Contact Person Title		1/4	1/4	Section	Township Range
2. Parent Company Name		Contact Person		Phone No. (       )	
Mailing Address			City	State	Mail (ZIP) Code
Type of Application (Check one box each for 3 and 4)					
3. <input type="checkbox"/> Intermediate <input type="checkbox"/> Basic State					
4. <input type="checkbox"/> Initial <input type="checkbox"/> Renewal (Current Permit No. _____ <input type="checkbox"/> Amendment					
5. Has this facility submitted an Emission Inventory Questionnaire (EIQ)?					
<input type="checkbox"/> Yes <input type="checkbox"/> No      If Yes, date of most recent EIQ: _____ If No, submit two copies of a completed EIQ with this application.					
6. Applicant's Certification Statement “I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate and complete.”					
Siganture of Responsible Official of Company				Date	
Type or Print Name and Title of Signer				Phone No. (       )	

# EMISSION UNIT INFORMATION - Crushers - NSPS

Form 2A1

Use this form for:

- Crushers constructed, reconstructed, modified after 8/31/83
- Crushers constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Crusher that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Primary (P) Secondary (S) <u>Tertiary (T)</u> Compression (C) Impact (I)	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2A1-1					
2A1-2					
2A1-3					
2A1-4					
2A1-5					
2A1-6					
2A1-7					
2A1-8					
2A1-9					
2A1-10					
2A1-11					
2A1-12					
2A1-13					
2A1-14					
2A1-15					
2A1-16					

DUPLICATE THIS FORM AS NEEDED

# EMISSION UNIT INFORMATION - Crushers - Non NSPS

Form 2A2

Use this form for:

- Crushers constructed, reconstructed, modified, replaced before 8/31/83
- Crushers constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Primary (P) Secondary (S) <u>Tertiary (T)</u> Compression (C) Impact (I)	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/Modification/Reconstruction
2A2-1					
2A2-2					
2A2-3					
2A2-4					
2A2-5					
2A2-6					
2A2-7					
2A2-8					
2A2-9					
2A2-10					
2A2-11					
2A2-12					
2A2-13					
2A2-14					
2A2-15					
2A2-16					

DUPLICATE THIS FORM AS NEEDED

# EMISSION UNIT INFORMATION - Screening Operations - NSPS

Form 2B1

Use this form for:

- Screening operations constructed, reconstructed, modified after 8/31/83
- Screening operations constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Screening operations that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Fines (F)	Emission Unit Description	Total Surface Area of the Top of Screen	Date of Manufacture/ Modification/ Reconstruction
2B1-1					
2B1-2					
2B1-3					
2B1-4					
2B1-5					
2B1-6					
2B1-7					
2B1-8					
2B1-9					
2B1-10					
2B1-11					
2B1-12					
2B1-13					
2B1-14					
2B1-15					
2B1-16					

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**EMISSION UNIT INFORMATION - Screening Operations - Non NSPS****Form 2B2**

Use this form for:

- Screening operations constructed, reconstructed, modified, replaced before 8/31/83
- Screening operations constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Fines (F)	Emission Unit Description	Total Surface Area of the Top of Screen	Date of Manufacture/ Modification/ Reconstruction
2B2-1					
2B2-2					
2B2-3					
2B2-4					
2B2-5					
2B2-6					
2B2-7					
2B2-8					
2B2-9					
2B2-10					
2B2-11					
2B2-12					
2B2-13					
2B2-14					
2B2-15					
2B2-16					

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**EMISSION UNIT INFORMATION - Storage Bin/Feed Hopper - NSPS****Form 2C1**

Use this form for:

- Storage Bin/Feed Hopper constructed, reconstructed, modified after 8/31/83
- Storage Bin/Feed Hopper constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Storage Bin/Feed Hopper that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Capacity (tons)	Date of Manufacture/ Modification/ Reconstruction
2C1-1				
2C1-2				
2C1-3				
2C1-4				
2C1-5				
2C1-6				
2C1-7				
2C1-8				
2C1-9				
2C1-10				
2C1-11				
2C1-12				
2C1-13				
2C1-14				
2C1-15				
2C1-16				

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## EMISSION UNIT INFORMATION - Storage Bin/Feed Hopper - Non NSPS Form 2C2

Use this form for:

- Storage Bin/Feed Hopper constructed, reconstructed, modified, replaced before 8/31/83
- Storage Bin/Feed Hopper constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Capacity (tons)	Date of Manufacture/ Modification/ Reconstruction
2C2-1				
2C2-2				
2C2-3				
2C2-4				
2C2-5				
2C2-6				
2C2-7				
2C2-8				
2C2-9				
2C2-10				
2C2-11				
2C2-12				
2C2-13				
2C2-14				
2C2-15				
2C2-16				

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**EMISSION UNIT INFORMATION - Fines Crushing/Grinding Mill - NSPS****Form 2D1**

Use this form for:

- Fines Crushing/Grinding Mill constructed, reconstructed, modified after 8/31/83
- Fines Crushing/Grinding Mill constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Fines Crushing/Grinding Mill that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2D1-1				
2D1-2				
2D1-3				
2D1-4				
2D1-5				
2D1-6				
2D1-7				
2D1-8				
2D1-9				
2D1-10				
2D1-11				
2D1-12				
2D1-13				
2D1-14				
2D1-15				
2D1-16				

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**EMISSION UNIT INFORMATION - Fines Crushing/Grinding Mill - Non NSPS****Form 2D2**

Use this form for:

- Fines Crushing/Grinding Mill constructed, reconstructed, modified, replaced before 8/31/83
- Fines Crushing/Grinding Mill constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2D2-1				
2D2-2				
2D2-3				
2D2-4				
2D2-5				
2D2-6				
2D2-7				
2D2-8				
2D2-9				
2D2-10				
2D2-11				
2D2-12				
2D2-13				
2D2-14				
2D2-15				
2D2-16				

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# EMISSION UNIT INFORMATION - Bagging Operation - NSPS

Form 2E1

Use this form for:

- Bagging Operation constructed, reconstructed, modified after 8/31/83
- Bagging Operation constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Bagging Operation that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2E1-1				
2E1-2				
2E1-3				
2E1-4				
2E1-5				
2E1-6				
2E1-7				
2E1-8				
2E1-9				
2E1-10				
2E1-11				
2E1-12				
2E1-13				
2E1-14				
2E1-15				
2E1-17				

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# EMISSION UNIT INFORMATION - Bagging Operation - Non NSPS

Form 2E2

Use this form for:

- Bagging Operation constructed, reconstructed, modified, replaced before 8/31/83
- Bagging Operation constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2E2-1				
2E2-2				
2E2-3				
2E2-4				
2E2-5				
2E2-6				
2E2-7				
2E2-8				
2E2-9				
2E2-10				
2E2-11				
2E2-12				
2E2-13				
2E2-14				
2E2-15				
2E2-16				

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# EMISSION UNIT INFORMATION - Conveyor Transfer Points - NSPS

Form 2F1

Use this form for:

- Transfer Points constructed, reconstructed, modified after 8/31/83
- Transfer Points constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Transfer Points that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Width of Belt (units)	Date of Manufacture/ Modification/ Reconstruction
2F1-1				
2F1-2				
2F1-3				
2F1-4				
2F1-5				
2F1-6				
2F1-7				
2F1-8				
2F1-9				
2F1-10				
2F1-11				
2F1-12				
2F1-13				
2F1-14				
2F1-15				
2F1-16				

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## EMISSION UNIT INFORMATION - Conveyor Transfer Points - Non NSPS Form 2F2

Use this form for:

- Transfer Points constructed, reconstructed, modified, replaced before 8/31/83
- Transfer Points constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Width of belt (units)	Date of Manufacture/ Modification/ Reconstruction
2F2-1				
2F2-2				
2F2-3				
2F2-4				
2F2-5				
2F2-6				
2F2-7				
2F2-8				
2F2-9				
2F2-10				
2F2-11				
2F2-12				
2F2-13				
2F2-14				
2F2-15				
2F2-16				

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# EMISSION UNIT INFORMATION - Bucket Elevator - NSPS

Form 2G1

Use this form for:

- Bucket Elevator constructed, reconstructed, modified after 8/31/83
- Bucket Elevator constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Bucket Elevator that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2G1-1				
2G1-2				
2G1-3				
2G1-4				
2G1-5				
2G1-6				
2G1-7				
2G1-8				
2G1-9				
2G1-10				
2G1-11				
2G1-12				
2G1-13				
2G1-14				
2G1-15				
2G1-16				

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# EMISSION UNIT INFORMATION - Bucket Elevator - Non NSPS

Form 2G2

Use this form for:

- Bucket Elevator constructed, reconstructed, modified, replaced before 8/31/83
- Bucket Elevator constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2G2-1				
2G2-2				
2G2-3				
2G2-4				
2G2-5				
2G2-6				
2G2-7				
2G2-8				
2G2-9				
2G2-10				
2G2-11				
2G2-12				
2G2-13				
2G2-14				
2G2-15				
2G2-16				

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**EMISSION UNIT INFORMATION - Enclosed Truck or Enclosed Rail Car Station - NSPS Form 2H1**

Use this form for:

- Enclosed Truck or Enclosed Rail Car Station constructed, reconstructed, modified after 8/31/83
- Enclosed Truck or Enclosed Rail Car Station constructed, reconstructed, modified after 8/31/83 that were not replaced by a piece of equipment of equal or smaller size with the same function
- Enclosed Truck or Enclosed Rail Car Station that used like for like replacement but transferred to another plant

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2H1-1				
2H1-2				
2H1-3				
2H1-4				
2H1-5				
2H1-6				
2H1-7				
2H1-8				
2H1-9				
2H1-10				
2H1-11				
2H1-12				
2H1-13				
2H1-14				
2H1-15				
2H1-16				

**DUPLICATE THIS FORM AS NEEDED**

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**EMISSION UNIT INFORMATION - Enclosed Truck or Enclosed Rail Car Station - Non NSPS****Form 2H2**

Use this form for:

- Enclosed Truck or Enclosed Rail Car Station constructed, reconstructed, modified, replaced before 8/31/83
- Enclosed Truck or Enclosed Rail Car Station constructed, reconstructed, modified after 8/31/83 that were replaced by a piece of equipment of equal or smaller size within the same function

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (tons/hr)	Date of Manufacture/ Modification/ Reconstruction
2H2-1				
2H2-2				
2H2-3				
2H2-4				
2H2-5				
2H2-6				
2H2-7				
2H2-8				
2H2-9				
2H2-10				
2H2-11				
2H2-12				
2H2-13				
2H2-14				
2H2-15				
2H2-16				

**DUPLICATE THIS FORM AS NEEDED**

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**Drilling**

Emission Unit No.	AIRS I.D. No.	Emission Unit Description
Example 2I-5	EU8 #2508-454-00	Upper Quarry Drill
2I-1		
2I-2		
2I-3		
2I-4		
2I-5		
2I-6		
2I-7		
2I-8		

**DUPLICATE THIS FORM AS NEEDED**

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**EMISSION UNIT INFORMATION - Haul Roads (fugitive)****Form 2J**

<b>Emission Unit No.</b>	<b>AIRS I.D. No.</b>	<b>Emission Unit Description</b>
<b>Example 2J-1</b>	EU3	South haul road from quarry to primary crusher
2J-1		
2J-2		
2J-3		
2J-4		
2J-5		
2J-6		
2J-7		
2J-8		
2J-9		
2J-10		
2J-11		
2J-12		
2J-13		
2J-14		
2J-15		
2J-16		

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**EMISSION UNIT INFORMATION - Stockpiles (fugitive)****Form 2K**

<b>Emission Unit No.</b>	<b>AIRS I.D. No.</b>	<b>Emission Unit Description</b>
<b>Example 2K-1</b>	EU9	Limestone Pile #1
2K-1		
2K-2		
2K-3		
2K-4		
2K-5		
2K-6		
2K-7		
2K-8		
2K-9		
2K-10		
2K-11		
2K-12		
2K-13		
2K-14		
2K-15		
2K-16		

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# EMISSION UNIT INFORMATION - Material Loading/Unloading/Handling (fugitive)

Form 2L

Emission Unit No.	AIRS I.D. No.	Emission Unit Description
Example 2L-1	EU10	Loading Quarry Haul Trucks
2L-1		
2L-2		
2L-3		
2L-4		
2L-5		
2L-6		
2L-7		
2L-8		
2L-9		
2L-10		
2L-11		
2L-12		
2L-13		
2L-14		
2L-15		
2L-16		
2L-17		

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# EMISSION UNIT INFORMATION - Storage Tanks - NSPS

Form 2R1

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Capacity (gallons)	Material Stored	Vapor Pressure (kPa)	Date of Manufacture/ Modification/ Reconstruction
2R1-1						
2R1-2						
2R1-3						
2R1-4						
2R1-5						
2R1-6						
2R1-7						
2R1-8						
2R1-9						
2R1-10						
2R1-11						
2R1-12						

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Petroleum Liquid	Vapor Pressure (kPa)	Vapor Pressure (70°F) (psia)
Gasoline RVP 13	57.2	8.3
Gasoline RVP 10	42.7	6.2
Gasoline RVP 7	29.6	4.3
Distillate Fuel Oil No. 2	0.06	0.0090
Residual Oil No. 6	0.0004	0.00006
Kerosene	0.28	0.041

# EMISSION UNIT INFORMATION - Storage Tanks - Non-NSPS

Form 2R2

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Capacity (gallons)	Material Stored	Vapor Pressure (kPa)	Date of Manufacture/ Modification/ Reconstruction
2R2-1						
2R2-2						
2R2-3						
2R2-4						
2R2-5						
2R2-6						
2R2-7						
2R2-8						
2R2-9						
2R2-10						
2R2-11						
2R2-12						

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Petroleum Liquid	Vapor Pressure (kPa)	Vapor Pressure (70°F) (psia)
Gasoline RVP 13	57.2	8.3
Gasoline RVP 10	42.7	6.2
Gasoline RVP 7	29.6	4.3
Distillate Fuel Oil No. 2	0.06	0.0090
Residual Oil No. 6	0.0004	0.00006
Kerosene	0.28	0.041

**EMISSION UNIT INFORMATION - Heaters/Boilers****Form 2S**

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (MMBtu)	Date of Manufacture/ Modification/ Reconstruction
2S-1				
2S-2				
2S-3				
2S-4				
2S-5				
2S-6				
2S-7				
2S-8				
2S-9				
2S-10				
2S-11				
2S-12				
2S-13				
2S-14				
2S-15				
2S-16				
2S-17				

**DUPLICATE THIS FORM AS NEEDED**



**EMISSION UNIT INFORMATION - Non-Mobile Internal Combustion Engines****Form 2T**

<b>Emission Unit No.</b>	<b>AIRS I.D. No.</b>	<b>Emission Unit Description</b>	<b>Manufacturer's Rated Capacity (hp or MMBtu)</b>	<b>Date of Manufacture/ Modification/ Reconstruction</b>
2T-1				
2T-2				
2T-3				
2T-4				
2T-5				
2T-6				
2T-7				
2T-8				
2T-9				
2T-10				
2T-11				
2T-12				
2T-13				
2T-14				
2T-15				
2T-16				
2T-17				

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**EMISSION UNIT INFORMATION - Solvent Metal Cleaning****Form 2U**

<b>Emission Unit No.</b>	<b>AIRS I.D. No.</b>	<b>Emission Unit Description</b>	<b>Storage Vessel Capacity (gallons)</b>	<b>Date of Manufacture/ Modification/ Reconstruction</b>
2U-1				
2U-2				
2U-3				
2U-4				
2U-5				
2U-6				
2U-7				
2U-8				
2U-9				
2U-10				
2U-11				
2U-12				
2U-13				
2U-14				
2U-15				
2U-16				
2U-17				

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**EMISSION UNIT INFORMATION - Miscellaneous****Form 2V**

Emission Unit No.	AIRS I.D. No.	Emission Unit Description	Manufacturer's Rated Capacity (units)	Date of Manufacture/ Modification/ Reconstruction
2V-1				
2V-2				
2V-3				
2V-4				
2V-5				
2V-6				
2V-7				
2V-8				
2V-9				
2V-10				
2V-11				
2V-12				
2V-13				
2V-14				
2V-15				
2V-16				
2V-17				

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# PORTABLE FACILITY FORM

Form 3

Portable Facility Permit #: \_\_\_\_\_

Permitted Locations:

SITE NUMBER	SITE LOCATION	County	1/4	1/4	Section	Township	Range

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**EXISTING PLANT-WIDE AND EMISSION UNIT PERMIT CONDITIONS****Form 4A**

Please list in the space provided below any permit conditions which are currently applicable.

Permit #	Permit Condition #	Emission Unit #	Applicable Permit Condition	Compliance Demonstration Method/Description
<b>Example:</b>				
0195-899	1	Facility	Facility shall emit no more than 25 tons of PM <sub>10</sub> in any consecutive 12-month period	Recordkeeping by "Monthly PM <sub>10</sub> Emissions Tracking Record"

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**VOLUNTARY PLANT-WIDE AND EMISSION UNIT PERMIT CONDITIONS****Form 4B**

Please list in the space provided below any proposed permit conditions you wish to establish in this operating permit.

Condition #	Emission Unit #	Proposed Permit Condition(s)	Compliance Demonstration Method/Description
Example: 1	Facility	Limit annual emissions for the facility to less than 100 tons of PM <sub>10</sub> emissions per consecutive 12-month rolling average.	Recordkeeping by "Monthly PM <sub>10</sub> Emissions Tracking Record"

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### Outstate Missouri Area

The following table summarizes the state and federal applicable requirements that may apply to specific emission units located in the Outstate Missouri area. Regulations that apply facility-wide are not shown in the table. Facilities located in the Outstate Missouri area must submit Forms 5A1 and 5B.

	Regulation	10 CSR 10-6.070 (40 CFR 60 Subpart OOO) Nonmetallic Mineral Processing Plants	10 CSR 10-6.070 (40 CFR 60 Subpart Kb) Volatile Organic Liquid Storage Vessels after July 23, 1984	10 CSR 10-3.050 Restriction of Emission of Particulate Matter from Industrial Processes	10 CSR 10-3.060 (4) & (5) Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating	10 CSR 10-3.080 (3) & (4) Restriction of Emission of Visible Air Contaminants from Existing and New Installations <sup>as</sup>	10 CSR 10-6.260(5) Restriction of Emission of Sulfur Compounds from Indirect Heating Sources
Point Sources <sup>*</sup>	Form	5B	5B	5A1	5A1	5A1	5A1
Crushed Stone Processing							
Crusher		X				X	
Screening operation		X				X	
Storage bin/Feed hopper		X				X	
Grinding mill		X				X	
Bagging operation		X				X	
Conveyors							
Transfer points - conveyor to bin/hopper		X				X	
Transfer points - conveyor to conveyor		X				X	
Transfer points - conveyor to pile						X	
Pile forming stacker						X	
Bucket elevator		X				X	
Loading facility for enclosed truck or enclosed railcar station		X				X	
Fugitives							
Haul roads		Only generally applicable facility-wide requirements apply to this source type					
Stockpiles		Only generally applicable facility-wide requirements apply to this source type					
Material loading/unloading/handling						X	
Drilling		Only generally applicable facility-wide requirements apply to this source type					
Other							
Tanks			X			X	
Heaters					X	X	X
Boilers					X	X	X
Non-mobile internal combustion engines				X			

\*These sources are to be considered point sources with respect to determining PTE. Because NSPS Subpart OOO defines fugitive emissions as particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation, many of the sources identified as "point" for operating permit applicability purposes may be fugitive with respect to specific regulations.

\*\*Existing means installed or under construction on or before February 24, 1971, except that if altered, repaired, or rebuilt at a cost of 50 percent or more of its replacement cost, exclusive of routine maintenance, it shall be considered new.

# Outstate Missouri Area

# APPLICABLE REQUIREMENTS

# Form 5A1

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2T	10 CSR 10-3.050	Restriction of Emission of Particulate Matter from Industrial Processes (10 CSR 10-3.050(5)(B)(2) exempts the grinding, crushing and classifying operations at rock quarries).	No person shall cause, suffer, allow or permit the emission of particulate matter in any one hour from any source in excess of the amount determined by the following empirical equations: $\leq 30$ tons per hour: $E = 4.10 \times P^{0.67}$ $> 30$ tons per hour: $E = 55.0 \times P^{0.11-40}$ E=Emission limit in lbs/hr P=Maximum rated capacity in tons/hr	None	None	No reporting requirements.  <i>The "worst case" unit for a ready-mix concrete operation is a 200 ton/hr capacity uncontrolled pneumatic cement unloading to elevated storage silo, which has a PM emission factor of 0.27 lbs/ton. The corresponding PM emission limit is 58.5 lbs/hr. <math>[E = 55.0 \times (200)^{0.11-40} = 58.5]</math> If while transferring cement, the PM emission rate is <math>\leq 58.5</math> lbs/hr, then all applicable production facilities are inherently in compliance.</i>  $[ER = (200 \text{ tons/hr}) \times (0.27 \text{ lbs/ton}) = 54.0 \text{ lbs PM/hr} < 58.5 \text{ lbs/hr.}]$
2S	10 CSR 10-3.060(4) and (5)	Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating	For Existing and New indirect heating sources with the following heat input ranges, the following emission limits or equations apply:  Existing - Commenced construction on or before April 3, 1971, (a) 10 MMBtu/hr or less, Emission Limit = 0.60 lbs/MMBtu, or (b) Between 10 MMBtu/hr and 10,000 MMBtu/hr, $E = 0.90 \times Q^{-0.174}$  New - Commenced construction after April 3, 1971 (a) 10 MMBtu/hr or less, Emission Limit = 0.60 lbs/MMBtu, or (b) Between 10 MMBtu/hr and 2000 MMBtu, $E = 1.31 \times Q^{-0.338}$ where E= particulate emission rate in lbs/MMBtu/hr and Q = the indirect heating source rated heat input in MMBtu/hr.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a PM emission factor of 8.34xS lbs/1,000 gal and a maximum sulfur content of the No. 5 fuel oil is 4.0%. The PM emission limit is 0.60 lb/MMBtu. If while burning #5 fuel oil the PM ER is <math>\leq 0.60</math> lb/MMBtu, then all indirect heating sources at all applicable production facilities are inherently in compliance.</i>  $[ER = (8.34 \text{ lbs/1,000 gal} \times 4) \times (1 \text{ gal/150,000 Btu}) \times (1,000,000 \text{ Btu/1 MMBtu}) = 0.22 \text{ lbs PM/MMBtu/hr} < 0.60 \text{ lbs MMBtu.}]$



# Outstate Missouri Area

# APPLICABLE REQUIREMENTS

# Form 5A1

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A1, 2A2, 2B1, 2B2, 2C1, 2C2, 2D1, 2D2, 2E1, 2E2, 2F1, 2F2, 2G1, 2G2, 2H1, 2H2, 2L, 2R1, 2R2, 2S	10 CSR 10-3.080(3) and (4)	Restriction of Emission of Visible Air Contaminants from New and Existing Installations  (10 CSR 10-3.080(5) provides exceptions to this limitation including internal combustion engines.)	New: Opacity of emissions not to exceed or equal 20 percent (except for a period aggregating not more than six minutes in any 60 minute period, the opacity may not exceed 60 percent)  Existing: Opacity of emissions not to exceed or equal 40 percent (except for a period aggregating not more than six minutes in any 60 minute period, the opacity may not exceed 60 percent).	Facility or state inspector will conduct an annual visible emissions inspection walk-through. The annual walk-through will consist of a visual inspection of each emission unit and control device at the facility for the presence of visible emissions. Upon the identification of particular units or control devices having visible emissions, an observer, trained in Method 9 procedures will make an observation. The presence of visible emissions or lack thereof (and if necessary, the opacity reading) will be logged and records will be maintained.		Previous inspection reports can be used to certify compliance with this regulation.  On-going compliance demonstration: If a Method 9 opacity test results in an opacity reading in excess of the applicable standard, the facility will take all necessary steps to minimize the excess emissions.
2S	10 CSR 10-6.260(5)	Restriction of Emissions of Sulfur Compounds from Indirect Heating Sources	For indirect heating sources $\geq 350,000$ Btu/hr actual heat input, no person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per MMBtu actual heat input averaged on any three hour basis.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a <math>SO_x</math> emission factor of "<math>158.6 \times \text{Sulfur Content (\%)} / 1,000 \text{ gal}</math> and "worst case" sulfur content of 4%. In reality, it will be no higher than 1.5%. The <math>SO_2</math> emission limit is 8.0 lb/MMBtu. If while burning #5 fuel oil the <math>SO_2</math> ER is <math>\leq 8.0</math> lb/MMBtu, then all indirect heating sources at this production facility are inherently in compliance.</i>  <i>[<math>ER = ((158.6 \times 4) \text{ lbs}/1000 \text{ gal}) \times (1 \text{ gal}/150,000 \text{ Btu}) \times (1,000,000 \text{ Btu/MMBtu}) = 4.22 \text{ lbs } SO_2/\text{MMBtu} &lt; 8.0 \text{ lbs/MMBtu}</math>]</i>
Facility-wide	10 CSR 10-3.030	Open Burning Restrictions	No person may conduct, cause, permit, or allow open burning of refuse, for salvage, or trade waste. (See specific regulation for exceptions to this limitation).	None	None	Maintain records of any open burning allowed by permit.

# Outstate Missouri Area

# APPLICABLE REQUIREMENTS

# Form 5A1

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-3.090	Restriction of Odor Emissions	This section requires that no person may cause, permit or allow the emissions of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than fifteen minutes apart within the period of one hour.	None	None	No reporting requirements/compliance demonstration.  The sources covered by this general permit inherently do not have odors. Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-6.050	Startup, Shutdown, and Malfunction Conditions	None	None	None	Upon receipt of a Notice of Excess Emissions, a facility may accept the conditions of the notice or provide information to demonstrate that the excess emissions were the consequence of a malfunction, start-up or shutdown. See the regulation for the specific information to be submitted by the facility.
Facility-wide	10 CSR 10-6.060	Construction Permits Required	Varies with "Permit to Construct"	None	None	Obtain permits as needed.
Facility-wide	10 CSR 10-6.065	Operating Permits	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	Submit permit application as required. A compliance certification statement shall be submitted by April 1 each year.
Facility-wide	10 CSR 10-6.110	Submission of Emission Data, Emission Fees and Process Information	Emission Fees: \$25.70 per actual ton of pollutant or as amended by rule.	None	None	Submit an annual emission inventory on forms furnished by the program by April 1, including emission data, emission fees, and process information for the previous calendar year.
Facility-wide	10 CSR 10-6.130	Controlling Emissions during Episodes of High Air Pollution Potential	This rule specifies the conditions that establish an air pollution alert (yellow, red, or emergency) and the associated procedures and emissions reduction objectives for dealing with each.	None	None	Submission of emergency plan if required by the Director and initiation of emergency plan upon notification of Director.
Facility-wide	10 CSR 10-6.150	Circumvention	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.	None	None	Previous inspection reports can be used to certify compliance with this regulation.

**Outstate Missouri Area**
**APPLICABLE REQUIREMENTS**
**Form 5A1**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-6.170	Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin	No visible particulate matter in the ambient air beyond property line of origin; or, no particulate matter found on surfaces beyond property line of origin.	None	None	Previous inspection reports can be used to demonstrate compliance with this regulation.
Facility-wide	10 CSR 10-6.260(3)	Restriction of Concentration of Sulfur Compounds in Emissions	Existing sources not to emit gases containing more than 2,000 ppmv SO <sub>2</sub> , or 70 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period; new sources not to emit gases containing more than 500 ppmv SO <sub>2</sub> or more than 35 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period. (Does not apply to indirect heating sources).	None	Source testing.	No reporting requirements. Most of the source operations at plants covered by this general permit generally will not be subject to 10 CSR 10-6.260(3) as they will be indirect heating sources.
Facility-wide	10 CSR 10-6.260(4)	Restriction of Concentration of Sulfur Compounds in Ambient Air	No person shall cause or permit the mission of sulfur compounds from any source which causes or contributes to concentration exceeding the National Ambient Air Quality Standards.	None	None	None
<b>You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.</b>						

# St. Louis Metropolitan Area

5A2

The following table summarizes the state and federal applicable requirements that may apply to specific emission units located in the St. Louis Metropolitan area. Regulations that apply facility-wide are not shown in the table. Facilities located in the St. Louis Metropolitan area must submit Forms 5A2 and 5B.

	Regulation	10 CSR 10-6.070 (40 CFR 60 Subpart OOO) Nonmetallic Mineral Processing Plants	10 CSR 10-6.070 (40 CFR 60 Subpart Kb) Volatile Organic Liquid Storage Vessels after July 23, 1984	10 CSR 10-5.030(2) & (3) Maximum Allowable Emissions of Particulate Matter from Existing** and New Fuel Burning Equipment Used for Indirect Heating	10 CSR 10-5.050 Restriction of Emission of Particulate Matter from Industrial Processes	10 CSR 10-5.090(1) & (2) Restriction of Emission of Visible Air Contaminants for Existing and New Sources	10 CSR 10-5.180 Emission of Visible Air Contaminants from Internal Combustion Engines	10 CSR 10-5.220 Control of Petroleum Liquid Storage, Loading, and Transfer	10 CSR 10-5.300 Control of Emissions from Solvent Metal Cleaning	10 CSR 10-6.260(5) Restriction of Emission of Sulfur Compounds from Indirect Heating Sources
Point Sources*	Form	5B	5B	5A2	5A2	5A2	5A2	5A2	5A2	5A2
Crushed Stone Processing										
Crusher		X				X				
Screening operation		X				X				
Storage bin/Feed hopper		X				X				
Grinding mill		X				X				
Bagging operation		X				X				
Conveyors										
Transfer points - conveyor to bin/hopper		X				X				
Transfer points - conveyor to conveyor		X				X				
Transfer points - conveyor to pile						X				
Pile forming stacker						X				
Bucket elevator		X				X				
Loading facility for enclosed truck or enclosed railcar station		X				X				
Fugitives										
Haul roads		Only generally applicable facility-wide requirements apply to this source type								
Stockpiles		Only generally applicable facility-wide requirements apply to this source type								
Material loading/unloading/handling					X	X				
Drilling		Only generally applicable facility-wide requirements apply to this source type								
Other										
Tanks			X			X		X		
Heaters				X		X				X
Boilers				X		X				X
Non-mobile internal combustion engines					X		X			
Solvent metal cleaning or degreasing operations emitting VOCs									X	

\*These sources are to be considered point sources with respect to determining PTE. Because NSPS Subpart OOO defines fugitive emissions as particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation, many of the sources identified as "point" for operating permit applicability purposes may be fugitive with respect to specific regulations.

\*\*Existing means installed or under construction on or before February 15, 1979, except that if altered, repaired, or rebuilt at a cost of 30 percent or more of its replacement cost, exclusive of routine maintenance, it shall be considered new.

# St. Louis Metropolitan Area

# APPLICABLE REQUIREMENTS

# Form 5A2

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2S	10 CSR 10-5.030(2) and (3)	Maximum Allowable Emission of Particulate Matter from Existing and New Fuel Burning Equipment Used for Indirect Heating	<p>Existing - Commenced construction on or before February 15, 1979 (or altered, repaired, or rebuilt at a cost of 30%), (a) 10 MMBtu/hr or less, Emission Limit = 0.60 lbs/MMBtu, or (b) Between 10 MMBtu/hr and 5,000 MMBtu/hr., <math>E = 1.09 \times Q^{-0.259}</math></p> <p>New - Commenced construction after February 15, 1979 (a) 10 MMBtu or less, Emission Limit = 0.40 lbs/MMBtu., or (b) Between 10 MMBtu/hr and 1,000 MMBtu/hr, <math>E = 0.80 \times Q^{-0.301}</math> where E= particulate emission rate in lbs/MMBtu and Q = the indirect heating source rated heat input in MMBtu/hr.</p>	None	None	<p>No reporting requirements.</p> <p><i>The "worst case" unit for an applicable production facility is a new 10 MMBtu/hr boiler fired with #5 fuel oil, which has a PM emission factor of 8.34xS lbs/1,000 gal and the maximum sulfur content of the No. 5 fuel oil is 4.0%. The most restrictive PM emission limit is 0.40 lb/MMBtu. If while burning #5 fuel oil the PM ER is <math>\leq 0.40</math> lb/MMBtu, then all indirect heating source at this production facility are inherently in compliance.</i></p> <p><i>[ER = (8.34 lbs/1,000 gal x 4) x 1 gal/150,000 Btu) x (1,000,000 Btu/MMBtu) = 0.22 lbs/MMBtu &lt; 0.40 lbs/MMBtu.]</i></p>
2T	10 CSR 10-5.050	Restriction of Emission of Particulate Matter from Industrial Processes (10 CSR 10-5.050(3)(A) exempts the grinding, crushing and classifying operations at rock quarries).	<p>No person shall cause, suffer, allow or permit the emission of particulate matter in any one hour from any source in excess of the amount determined by the following empirical equations:</p> <p><math>\leq 30</math> tons per hour:  <math>E = 4.10 \times P^{0.67}</math></p> <p><math>&gt; 30</math> tons per hour:  <math>E = 55.0 \times P^{0.11-40}</math></p> <p>E=Emission limit in lbs/hr  P=Maximum rated capacity in tons/hr</p>	None	None	<p>No reporting requirements.</p> <p><i>The "worst case" unit for a ready-mix concrete operation is a 200 ton/hr capacity uncontrolled pneumatic cement unloading to elevated storage silo, which has a PM emission factor of 0.27 lbs/ton. The corresponding PM emission limit is 58.5 lbs/hr. [E=55.0x(200)<sup>0.11-40</sup>=58.5] If while transferring cement, the PM emission rate is <math>\leq 58.5</math> lbs/hr, then this production facility is inherently in compliance.</i></p> <p><i>[ER=(200 tons/hr) x (0.27 lbs/ton) =54.0 lbs PM<sub>10</sub>/hr &lt; 58.5 lbs/hr.]</i></p>

**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A2, 2B2, 2C2, 2D2, 2E2, 2F2, 2G2, 2H2, 2L, 2R2, 2S	10 CSR 10-5.090(1) and (2)	Restriction of Emission of Visible Air Contaminants	<p>Opacity of emissions not to exceed or equal 20 percent from new sources, or from existing sources which emit <math>\geq</math> 25 lbs per hour particulate (except for a period aggregating not more than six minutes, in any 60 minute period, the opacity may not exceed 40 percent).</p> <hr/> <p>Opacity of emissions not to exceed or equal 40 percent for existing sources emitting less than 25 lbs per hour particulate</p>	Facility or inspector will conduct an annual visible emissions inspection walk-through. The annual walk-through will consist of a visual inspection of each emission unit and control device at the facility for the presence of visible emissions. Upon the identification of particular units or control devices having visible emissions, an observer, trained in Method 9 procedures will make an observation. The presence of visible emissions or lack thereof (and if necessary, the opacity reading) will be logged and all records will be maintained.		<p>Previous inspection reports can be used to certify compliance with this regulation.</p> <p>Ongoing compliance demonstration: If a Method 9 opacity test results in an opacity reading in excess of the applicable standard, the facility will take all necessary steps to minimize the excess emissions.</p>
2T	10 CSR 10-5.180	Emission of Visible Air Contaminants from Internal Combustion Engine	No person shall cause or permit the emission of visible air contaminants from any internal combustion engine for more than ten consecutive seconds at any one time. Where the presence of uncombined water is the only reason for failure of an emission to meet the requirements of this regulation, the provisions of this regulation shall not apply.	None	None	Previous inspection reports can be used to certify compliance.
2R1, 2R2	10 CSR 10-5.220 (5), (6), (8), (9), (10), (11)	Control of Petroleum Liquid Storage, Loading, and Transfer	See regulation for specific requirements.	<p>Keep records documenting the vessel owners and number of delivery vessels unloaded by each owner. Maintain records of department permits, inspection reports, enforcement documents, training certifications, gasoline deliveries, routine and unscheduled maintenance and repairs and all results of tests conducted.</p> <p>Records shall be kept for two years and shall be available immediately to the director upon request.</p>	Notification, monitoring, and testing requirements as identified in the regulation.	Previous inspection reports can be used to certify compliance. Records kept onsite.

**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2U	10 CSR 10-5.300 (City of St. Louis and St. Charles, and St. Louis, Jefferson, and Franklin Counties)	Control of Emissions from Solvent Metal Cleaning (Solvent metal cleaners using methyl chloroform or refrigerant 113 are exempt from the requirements of this rule.)  Regulation is only applicable to VOC emissions.	Specifies equipment, operating procedures, and training requirements for the reduction of hydrocarbon emissions from solvent metal cleaning operations using cold cleaners, open top vapor degreasers, or conveyORIZED degreasers. See regulation for specific requirements.	Monthly inventory records of solvent types and amounts purchased and solvent consumed for a period of two years. Records on all types and amounts of solvent containing waste materials transferred to either a contract reclamation service or to a disposal facility and all amounts distilled on the premises. Records on maintenance and repair logs for both degreasers and any associated control equipment.  Records of solvent metal cleaning training for each employee.	See 10 CSR 10-5.300(5) for operating procedures.	Records kept onsite.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2S	10 CSR 10-6.260(5)	Restriction of Emissions of Sulfur Compounds from Indirect Heating Sources  Regulation is only applicable to SO <sub>2</sub> emissions.	For indirect heating sources $\geq 350,000$ Btu/hr actual heat input, no person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per MMBtu actual heat input averaged on any three hour basis.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a SO<sub>x</sub> emission factor of "158.6 x Sulfur Content (%)" / 1,000 gal and "worst case" sulfur content of 4%. In reality, it will be no higher than 1.5%. The SO<sub>2</sub> emission limit is 8.0 lb/MMBtu. If while burning #5 fuel oil the SO<sub>2</sub> ER is <math>\leq 8.0</math> lb/MMBtu, then all indirect heating sources at this production facility are inherently in compliance.</i>  <i>[ER = ((158.6 x 4) lbs/1000 gal) x (1 gal/150,000 Btu) x (1,000,000 Btu/MMBtu) = 4.22 lbs SO<sub>2</sub>/MMBtu &lt; 8.0 lbs/MMBtu]</i>



**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide if in designated area	10 CSR 10-5.290	<p>More Restrictive Emission Limitations for Particulate Matter in the South St. Louis Area.</p> <p>This regulation shall apply to all sources in an area bounded as follows: Beginning at St. Louis County on the west bank of the Mississippi River approximately thirty-five hundred feet south of the confluence of the River des Peres and Mississippi River at the intersection of an extension of Ripa Street and the bank of the Mississippi River, west along Ripa Street to Broadway, north on Broadway to Vincent, west on Vincent to Gentry, northeast on Gentry to Orient, northwest on Orient to Lemay Ferry Road, northeast on Lemay Ferry Road to Bayless avenue, northwest on Bayless Avenue to Interstate 55, northeasterly on Interstate 55 crossing the boundary between the City and County of St. Louis to Loughborough, then easterly on Loughborough to the west banks of the Mississippi river to the point of beginning all lying within St. Louis City and St. Louis County.</p>	<p>No person may cause or permit the handling or transporting or storage of any material in a manner which allows particulate matter to become airborne in such quantities and concentrations that (1) it remains visible in the ambient air beyond the premises where it originates, or (2) that its presence may be found beyond the premises where it originates and it is larger than forty microns in size.</p> <p>No person may cause or permit a building or its appurtenances, or a road, or a driveway, or a parking lot, or an open area to be constructed, used, repaired, or demolished without applying all such reasonable measures as may be required to prevent particulate matter from becoming airborne.</p> <p>No person may emit into the ambient air from any air contaminant source fugitive emissions greater than that which would be emitted after application of all reasonably available control technologies and all reasonable maintenance of plant and equipment.</p>	None	None	Previous inspection reports can be used to certify compliance.

## St. Louis Metropolitan Area

## APPLICABLE REQUIREMENTS

## Form 5A2

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-5.040	Use of Fuel in Hand-Fired Equipment Prohibited	This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and woodburning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber. It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area.	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-5.070	Open Burning Restrictions	No person shall dispose of household refuse by open burning, or cause, allow, or permit open burning of refuse except in areas outside of incorporated municipalities. (See specific regulation for other restrictions and specific exceptions to this limitation.	None	None	Maintain record of any open burning allowed by permit.
Facility-wide	10 CSR 10-5.120	Information on Sales of Fuels to be Provided and Maintained	After thirty days from the effective date of this regulation (April 24, 1976), every delivery of coal or <u>residual fuel oil</u> (#5 or #6) when first delivered to a consumer or wholesaler in the St. Louis metropolitan area must be accompanied by a ticket prepared in triplicate and containing at least the name and address of the seller and the buyer and the source of the fuel. Tickets on delivery of coal shall also show the ash content of the coal. One copy of each ticket shall be kept by the person delivering the fuel and be retained for one year; one copy is to be given to the recipient of the fuel to be retained for one year; and upon request, within thirty days after delivery of the fuel, the delivering party shall mail one copy to the Air Conservation Commission.	Must retain a copy of the ticket provided by the person delivering the fuel for one year.	None	Previous inspection reports can be used to certify compliance with this regulation; records kept.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-5.160	Control of odors in the Ambient Air	<p>No person shall emit odorous matter such as to cause an objectionable odor on or adjacent to residential, recreational, institutional, retail sales, hotel or educational premises; on or adjacent to industrial premises when air containing such odorous matter is diluted with twenty or more volumes of odor-free air; or on or adjacent to premises other than those listed above, when air containing such odorous matter is diluted with four or more volumes of odor-free air. The above requirement shall apply only to objectionable odors. An odor will be deemed objectionable when thirty percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy, the sample size to be at least twenty people or seventy-five percent of those exposed if fewer than twenty people are exposed.</p> <p>The provisions of this rule shall not apply to the emission of odorous matter from the raising and harvesting of crops, nor from the feeding, breeding, and management of livestock or domestic animals or fowl.</p>	None	None	No reporting requirement/compliance demonstration.

**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide if in designated area	10 CSR 10-5.240	Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area	<p>This regulation shall apply to areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from such sources by regulations of general application are or would be greater than two thousand tons per year or five hundred pounds per hour.</p> <p>This regulation shall apply in areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from such sources allowed by regulations of general application are or would be greater than one thousand tons for any consecutive three months of one thousand pounds per hour.</p> <p>In areas where this regulation applies, the Air Conservation Commission may prescribe air quality control requirements that are more restrictive and more extensive than provided in regulations of general application.</p>	None	None	Previous inspection reports can be used to certify compliance with this regulation.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-5.250	Time Schedule for Compliance	<p>Except as otherwise specified, compliance with the provisions of this regulation shall be according to the following time schedule.</p> <p>All new installations shall comply as of going into operation.</p> <p>All existing installations not in compliance as of the effective date shall be in compliance within six months of the effective date (September 24, 1967) unless the owner or person responsible for the operation of the installation shall have submitted to the staff director in a form and manner satisfactory to him/her, a program and schedule for achieving compliance, such program and schedule to contain a date on or before which full compliance will be attained, and such other information as the staff director may require. If approved by the staff director, such date will be the date on which the person shall comply.</p> <p>All other dates notwithstanding, all existing installations in Franklin County shall be in compliance with this regulation by January 31, 1972.</p>	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-5.443(3) (A&B)	Control of Reid Vapor Pressure	No person shall sell, dispense, supply, offer for sale, offer for supply, transport or exchange in trade for use gasoline intended for final use in the applicable areas that exceeds the RVP limit of 7.0 psi from 6/1 to 9/15 starting in 1995.	See recordkeeping requirements in 10 CSR 10-5.443(3)(A&B)	None	<p>No reporting requirement.</p> <p>Facility will no sell, dispense, supply, offer for sale, offer for supply, transport or exchange in trade for use gasoline exceeding the RVP limit. Records required by (6)(B) and (6)(C) will be used to demonstrate compliance with this subsection.</p>

# St. Louis Metropolitan Area

# APPLICABLE REQUIREMENTS

# Form 5A2

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-5.443(3)(C)	Control of Reid Vapor Pressure	Gasoline blends having at least nine percent (9%) but not more than ten percent (10%) ethyl alcohol by volume of the blended mixture shall have a Reid Vapor Pressure (RVP) limit of one pound per square inch (1.0 psi) higher than the limit contained in subsection (3)(B).	See recordkeeping requirements in 10 CSR 10-5.443(3)(C)	None	No reporting requirement.  Facility will not sell, dispense, supply, offer for sale, offer for supply, transport or exchange in trade for use ethanol blended mixture gasoline exceeding the RVP limit in subsection (3)(C). Records required by (6)(B) and (6)(C) will be used to demonstrate compliance with this subsection.
Facility-wide	10 CSR 10-5.443(6)(B)	Control of Reid Vapor Pressure	Each bill of lading, invoice, loading ticket, delivery ticket, and other document which accompanies a shipment of gasoline (which includes gasoline blended with ethyl alcohol) shall contain a legible and conspicuous statement that the RVP of the gasoline does not exceed seven (7.0) psi, in accordance with this rule for conventional gasoline, or that the RVP does not exceed eight (8.0) psi for nine to ten percent (9%-10%) per the RVP exception under subsection (3)(C) of this rule.	Bill of lading, invoice, loading ticket, delivery ticket, or other document showing RVP of each shipment of gasoline or ethanol blended gasoline received.	None	No reporting requirement.  Each document which accompanies a gasoline shipment will contain a legible and conspicuous statement of the RVP of the gasoline or gasoline blend.
Facility-wide	10 CSR 10-5.443(6)(C)	Control of Reid Vapor Pressure	Each bill of lading, invoice, loading ticket, delivery ticket, and other document which accompanies a shipment of ethyl alcohol shall contain a legible and conspicuous statement that gasoline being shipped contains ethyl alcohol and the percentage of ethyl alcohol is between nine to ten percent (9%-10%) per the RVP exception under subsection (3)(C) of this rule.	Bill of lading, invoice, loading ticket, delivery ticket, or other document showing percentage of ethyl alcohol of each shipment.	None	No reporting requirement.  Each document which accompanies a gasoline shipment will contain a legible and conspicuous statement of the ethanol content of each ethanol blended gasoline shipment.
Facility-wide	10 CSR 10-5.443(6)(D)	Control of Reid Vapor Pressure	All persons subject to this rule shall keep records of the bill of lading, invoice, loading ticket, delivery ticket, and other documents accompanying a shipment of gasoline during the compliance period specified in section (3). These records shall be kept for at least two (2) years after the date of delivery. These records shall be made available immediately upon request for review by Department of Natural Resources personnel and city and county personnel certified under section 643.140, RSMo.	Bill of lading, invoice, loading ticket, delivery ticket, or other document showing RVP and percentage concentration of ethanol of each shipment of gasoline or ethanol blended gasoline received.	None	No reporting requirement.  Each document which accompanies a gasoline shipment will be kept on file for two years.

**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

<b>Form Number</b>	<b>Regulatory Authority</b>	<b>Description</b>	<b>Emission Limitation</b>	<b>Recordkeeping Requirement</b>	<b>Monitoring/Testing Requirement</b>	<b>Reporting Requirement/ Compliance Demonstration</b>
Facility-wide	10 CSR 10-6.050	Startup, Shutdown, and Malfunction Conditions	None	None	None	Upon receipt of a Notice of Excess Emissions, a facility may accept the conditions of the notice or provide information to demonstrate that the excess emissions were the consequence of a malfunction, start-up or shutdown. See the regulation for the specific information to be submitted by the facility.
Facility-wide	10 CSR 10-6.060	Construction Permits Required	Varies with "Permit to Construct"	None	None	Obtain permits as needed.
Facility-wide	10 CSR 10-6.065	Operating Permits	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	Submit permit application as required. A compliance certification statement shall be submitted by April 1 each year.
Facility-wide	10 CSR 10-6.110	Submission of Emission Data, Emission Fees and Process Information	Emission Fees: \$25.70 per actual ton of pollutant or as amended by rule.	None	None	Submit an annual emission inventory on forms furnished by the program by April 1, including emission data, emission fees, and process information for the previous calendar year.
Facility-wide	10 CSR 10-6.130	Controlling Emissions during Episodes of High Air Pollution Potential	This rule specifies the conditions that establish an air pollution alert (yellow, red, or emergency) and the associated procedures and emissions reduction objectives for dealing with each.	None	None	Submission of emergency plan if required by the Director and initiation of emergency plan upon notification of Director.
Facility-wide	10 CSR 10-6.150	Circumvention	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-6.170	Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin	No visible particulate matter in the ambient air beyond property line of origin; or, no particulate matter found on surfaces beyond property line of origin.	None	None	Previous inspection reports can be used to demonstrate compliance with this regulation.

**St. Louis Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A2**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-6.260(3)	Restriction of Concentration of Sulfur Compounds in Emissions	Existing sources not to emit gases containing more than 2,000 ppmv SO <sub>2</sub> , or 70 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period; new sources not to emit gases containing more than 500 ppmv SO <sub>2</sub> or more than 35 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period. (Does not apply to indirect heating sources).	None	Source testing.	No reporting requirements. Most of the source operations at plants covered by this general permit generally will not be subject to 10 CSR 10-6.260(3) as they will be indirect heating sources.
Facility-wide	10 CSR 10-6.260(4)	Restriction of Concentration of Sulfur Compounds in Ambient Air	No person shall cause or permit the mission of sulfur compounds from any source which causes or contributes to concentration exceeding the National Ambient Air Quality Standards.	None	None	None
<b>You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.</b>						



The following table summarizes the state and federal applicable requirements that may apply to specific emission units located in the City of St. Louis. Regulations that apply facility-wide are not shown in the table. Facilities located City of St. Louis must submit Forms 5A2, 5A3 and 5B.

	Regulation	10 CSR 10-6.070 (40) CFR 60 Subpart OOO) Nonmetallic Mineral Processing Plants	10 CSR 10-6.070 (40) CFR 60 Subpart Kb) Volatile Organic Liquid Storage Vessels after July 23, 1984	Ordinance 50163, Section 18 Permits for Fuel or Refuse Burning Equipment	Ordinance 59270, Section 8(b)&(c) Maximum Allowable Emissions of Particulate Matter From Existing and New Fuel Burning Equipment Used for Indirect heating**	Ordinance 59270, Section 14(b)&(c) Restriction of Emission of Visible Air Contaminants	Ordinance 59270, Section 16 Restriction of Emission of Sulfur Compounds from Use of Fuel	Ordinance 59270, Section 28 Control of Emissions from Solvent Metal Cleaning	Ordinance 60023, Section 1 Restriction of Emission of Particulate Matter from Industrial Processes	Ordinance 60629, Section 1 Control of Petroleum Liquid - Storage, Loading, and Transfer
Point Sources *	Form	5B	5B	5A3	5A3	5A3	5A3	5A3	5A3	5A3
Crushed Stone Processing										
Crusher		X				X				
Screening operation		X				X				
Storage bin/Feed hopper		X				X				
Grinding mill		X				X				
Bagging operation		X				X				
Conveyors										
Transfer points - conveyor to bin/hopper		X				X				
Transfer points - conveyor to conveyor		X				X				
Transfer points - conveyor to pile						X				
Pile forming stacker						X				
Bucket Elevator		X				X				
Loading facility for enclosed truck or enclosed railcar station		X				X				
Fugitives										
Haul roads		Only generally applicable facility-wide requirements apply to this source type								
Stockpiles		Only generally applicable facility-wide requirements apply to this source type								
Material loading/unloading/handling						X				
Drilling		Only generally applicable facility-wide requirements apply to this source type								
Other										
Tanks			X			X				X
Heaters				X	X	X	X			
Boilers				X	X	X	X			
Non-mobile internal combustion engines				X					X	
Solvent metal cleaning or degreasing operations emitting VOCs								X		

\*These sources are to be considered point sources with respect to determining PTE. Because NSPS Subpart OOO defines fugitive emissions as particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation, many of the sources identified as "point" for operating permit applicability purposes may be fugitive with respect to specific regulations.

\*\* Existing means installed or under construction on or before February 15, 1979, except that if altered, repaired, or rebuilt at a cost of 30 percent or more of its replacement cost, exclusive of routine maintenance, it shall be considered new.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2S, 2T	Ordinance 50163, Section 18	Permits for Fuel or Refuse Burning Equipment	Permits required.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance.
2S	Ordinance 59270, Section 8(b) and 8(c)	Maximum Allowable Emission of Particulate Matter from Existing and New Fuel Burning Equipment Used for Indirect Heating	<p>Existing - Commenced construction on or before February 15, 1979 (or altered, repaired, or rebuilt at a cost of 30%), (a) 10 MMBtu/hr or less, Emission Limit = 0.60 lbs/MMBtu, or (b) Between 10 MMBtu/hr and 5,000 MMBtu/hr., <math>E = 1.09 \times Q^{-0.259}</math></p> <p>New - Commenced construction after February 15, 1979 (a) 10 MMBtu or less, Emission Limit = 0.40 lbs/MMBtu., or (b) Between 10 MMBtu/hr and 1,000 MMBtu/hr., <math>E = 0.80 \times Q^{-0.301}</math> where E = particulate emission rate in lbs/MMBtu and Q = the indirect heating source rated heat input in MMBtu/hr.</p>	None	None	<p>No reporting requirements.</p> <p><i>The "worst case" unit for an applicable production facility is a new 10 MMBtu/hr boiler fired with #5 fuel oil, which has a PM emission factor of 8.34xS lbs/1,000 gal and the maximum sulfur content of the No. 5 fuel oil is 4.0%. The most restrictive PM emission limit is 0.40 lb/MMBtu. If while burning #5 fuel oil the PM ER is <math>\leq 0.40</math> lb/MMBtu, then all indirect heating source at this production facility are inherently in compliance.</i></p> <p><i>[<math>ER = (8.34 \text{ lbs/1,000 gal} \times 4) \times 1 \text{ gal/150,000 Btu} \times (1,000,000 \text{ Btu/MMBtu}) = 0.22 \text{ lbs/MMBtu} &lt; 0.40 \text{ lbs/MMBtu.}</math>]</i></p>
2A1, 2A2, 2B1, 2B2, 2C1, 2C2, 2D1, 2D2, 2E1, 2E2, 2F1, 2F2, 2G1, 2G2, 2H1, 2H2, 2I, 2J, 2K, 2L, 2R1, 2R2, 2S	Ordinance 59270, Section 14(b) and (c)	Restriction of Emission of Visible Air Contaminants	<p>Opacity of emissions not to exceed or equal 20 percent from new sources, or from existing sources which emit &gt; 25 lbs per hour particulate (except for a period aggregating not more than six minutes, in any 60 minute period, the opacity may not exceed 40 percent).</p> <p>Opacity of emissions not to exceed or equal 40 percent for existing sources emitting less than 25 lbs per hour particulate (except for a period aggregating not more than six minutes, in any 60 minute period, the opacity may not exceed 40 percent).</p>	Facility or inspector will conduct an annual visible emissions inspection walk-through. The annual walk-through will consist of a visual inspection of each emission unit and control device at the facility for the presence of visible emissions. These inspections will be performed by plant personnel. Upon the identification of particular units or control devices having visible emissions, an observer, trained in Method 9 procedures will make an observation. The presence of visible emissions or lack thereof (and if necessary, the opacity reading) will be logged and all records will be maintained.	Previous inspection reports can be used to certify compliance with this regulation.	<p>Ongoing compliance demonstration: If a Method 9 opacity test results in an opacity reading in excess of the applicable standard, the facility will take all necessary steps to minimize the excess emissions.</p>

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2S	Ordinance 59270, Section 16	Restrictions of Emission of Sulfur Dioxide from Use of Fuel.	<p>For fuel burning equipment &lt; 2,000 MMBtu/hr actual heat input</p> <p>No person shall burn or permit the burning of any fuel oil containing more than two percent sulfur during the months of October, November, December, January, February and March each year, otherwise the limit shall be four percent sulfur. Unless the installation can show that the emission of sulfur dioxide from the installation into the atmosphere will not exceed 2.3 pounds per MMBtu of heat input.</p>	None	None	<p>No reporting requirements.</p> <p><i>The “worst case” unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a SO<sub>x</sub> emission factor of “158.6 x Sulfur Content (%)”/1,000 gal and “worst case” sulfur content of 4%. In reality, it will be no higher than 1.5%. The SO<sub>2</sub> emission limit is 2.3 lb/MMBtu. If while burning #5 fuel oil the SO<sub>2</sub> ER is ≤ 2.3 lb/MMBtu, then all indirect heating sources at this production facility are inherently in compliance.</i></p> <p><i>[ER = ((158.6 x 1.5) lbs/1000 gal) x (1 gal/150,000 Btu) x (1,000,000 Btu/MMBtu) = 1.58 lbs SO<sub>2</sub>/MMBtu &lt; 2.3 lbs/MMBtu]</i></p>
2U	Ordinance 59270, Section 28	VOC, Control of Emissions from Solvent Metal Cleaning (Solvent metal cleaners using methyl chloroform or refrigerant 113 are exempt from the requirements of this rule. Processes using <250 gallons per year non-aqueous solvents are exempt.)	Specifies equipment, operating procedures, and training requirements for the reduction of hydrocarbon emissions from solvent metal cleaning operations. See regulation for specific requirements.	Inventory records of solvent types and amounts purchased and solvent consumed for a period of two years. Records of solvent metal cleaning training for each employee.	See Section 28 (E) for operating procedures.	Records kept onsite.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2T	Ordinance 60023, Section 1	Amendment of Section 10 of Ordinance 59270 - Restriction of PM from Industrial Processes	<p>No person shall cause, suffer, allow or permit the emission of particulate matter in any one hour from any source in excess of the amount determined by the following empirical equations:</p> <p>≤30 tons per hour:  <math>E = 4.10 \times P^{0.67}</math></p> <p>&gt;30 tons per hour:  <math>E = 55.0 \times P^{0.11-40}</math></p> <p>E=Emission limit in lbs/hr  P=Maximum rated capacity in tons/hr</p>	None	None	<p>No reporting requirements.</p> <p><i>The "worst case" unit for a ready-mix concrete operation is a 200 ton/hr capacity uncontrolled pneumatic cement unloading to elevated storage silo, which has a PM emission factor of 0.27 lbs/ton. The corresponding PM emission limit is 58.5 lbs/hr. <math>[E = 55.0 \times (200)^{0.11-40} = 58.5]</math> If while transferring cement, the PM emission rate is ≤ 58.5 lbs/hr, then this production facility is inherently in compliance.</i></p> <p><i><math>[ER = (200 \text{ tons/hr}) \times (0.27 \text{ lbs/ton}) = 54.0 \text{ lbs PM}_{10}/\text{hr} &lt; 58.5 \text{ lbs/hr.}]</math></i></p>
2R1, 2R2	Ordinance 60629, Section 1	Amendment of Section 3(C) of Ordinance 60023 - Control of Petroleum Liquid - Storage, Loading, and Transfer	<p>Gasoline tanks greater than 2,000 gallons must be equipped with a submerged fill pipe and a vapor recovery system or another system of an equal efficiency. Stationary storage containers installed after September 14, 1976, with a capacity between two hundred fifty and two thousand gallons may be equipped only with a submerged fill pipe (see regulation for further requirements).</p> <p>After December 31, 1987, stationary gasoline tanks &gt; 1,000 gallons must have MDNR certified vapor recovery systems.</p> <p>Vapor Recovery System Requirements (see regulation for specific requirements).</p>	<p>None</p> <p>Post operating instructions for vapor recovery nozzles with a warning that repeated attempts to dispense gasoline to a full vehicle fuel tank may result in spillage.</p>	<p>None</p> <p>The commissioner may, at any time, monitor a vapor recovery system.</p>	<p>Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.</p>
Facility-wide	Ordinance 50163, Section 15	When Emission of Pollutants Become a Nuisance	Unlawful for any person to cause, permits, or maintain a public nuisance.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance.
Facility-wide	Ordinance 50163, Section 17	Registration of Sources of Air Pollution	All sources must be registered.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	Ordinance 50163, Section 19	Labels to be Affixed to Approved Installations	Labels of inspection to be affixed.	Labels of inspection to be affixed.	None	Previous City of St. Louis inspection reports can be used to certify compliance.
Facility-wide	Ordinance 59270, Section 9	Use of Hand Fired Equipment Prohibited	No person shall operate, or cause to operate, any hand fired fuel burning equipment in the City of St. Louis.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance.
Facility-wide	Ordinance 59270, Section 12	Open Burning Restrictions	No person shall cause, suffer, allow or permit the open burning of refuse.  No person shall conduct, cause or permit the conduct of a salvage operation by open burning.  No person shall conduct, cause or permit the disposal of trade waste by open burning.  No person shall cause or permit the open burning of leaves or other vegetation.	None	None	Maintain records of any open burning allowed by permit.
Facility-wide	Ordinance 59270, Section 15	Preventing Air Contaminants from Becoming Airborne	Must take reasonable precaution to prevent particulate from becoming airborne.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance.
Facility-wide	Ordinance 59270, Section 18	Information on Sales of Fuels to be Provided and Maintained	Every delivery of coal or <u>residual fuel oil</u> (#5 or #6) when first delivered to a consumer or wholesaler in the St. Louis metropolitan area must be accompanied by a ticket prepared in triplicate and containing at least the name and address of the seller and the buyer and the source of the fuel. Tickets on delivery of coal shall also show the ash content of the coal. One copy of each ticket shall be kept by the person delivering the fuel and be retained for one year; one copy is to be given to the recipient of the fuel to be retained for one year; and upon request, within thirty days after delivery of the fuel, the delivering party shall mail one copy to the Air Conservation Commission.	Must retain a copy of the ticket provided by the person delivering the fuel for one year.	None	Previous City of St. Louis inspection reports can be used to certify compliance with this regulation; records kept.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	Ordinance, 59270, Section 20	Control of Odors in the Ambient Air	No person shall emit odorous matter such as to cause an objectionable odor.	None	None	None  The sources covered by this general permit inherently do not have odors.  Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.
Facility-wide	Ordinance 59270, Section 22	Air Pollution Nuisance Prohibited	Violations of any provision of this ordinance is a public nuisance.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.
Facility-wide	Ordinance 59270, Section 33	Emergency Procedures	Commissioner may order the facility to immediately discontinue the discharge of air contaminant.	None	None	Shutdown as required.
Facility-wide	Ordinance 59270, Section 34	Rules for controlling Emissions During Periods of High Air Pollution	This rule specifies the conditions that establish an air pollution alert (yellow/red), watch or emergency and the associated procedures and emissions reduction objectives for dealing with each.	None	None	Submission of emergency plan if required by the Director.
Facility-wide	Ordinance 59270, Section 35	Location and Height of Discharge of Air Contaminants	No person shall cause or permit the discharge from any vent, stack, chimney or duct of any air contaminant in such manner as not to achieve adequate dispersion, reduction of concentration to which persons are exposed, prevention of impingement of plumes on nearby property or buildings, elimination of nuisances, dilution of odors, restriction of particulate fall-out, prevention of haze or excessive vapors or any other undesirable effect.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.
Facility-wide	Ordinance 59270, Section 37	Upset Conditions, Breakdown or Scheduled Maintenance	Upset Conditions, Breakdown or Scheduled Maintenance	None	None	Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.
Facility-wide	Ordinance 59270, Section 39	Permits and Inspection Fees	Installations having the PTE 10 tpy of any air contaminant must have an annual City of St. Louis operating permit issued.	None	None	Obtain permits and pay fees as required.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	Ordinance 59270, Section 46	Circumvention	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.	None	None	Previous City of St. Louis inspection reports can be used to certify compliance with this regulation.
<b>You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.</b>						

## St. Louis County Rules

## Form 5A4

Facilities located in St. Louis County are subject to the St. Louis County regulations (Form 5A4), the St. Louis Metropolitan Area regulations (Form 5A2), and the regulations applicable to the entire state of Missouri (Form 5A2). The St. Louis Metropolitan Area regulations contain the regulations regarding emission sources; therefore the St. Louis County regulations have not been summarized other than being listed below. Facilities should determine the applicability of each rule and check the column below to indicate a specific St. Louis County Regulation is applicable to the facility. The compliance status with each rule should be determined; any non-compliance should be summarized on Form 7.

Section	Title	Check if applicable
612.100	Emergency Abatement of Violation - Procedure	
612.110	Permits Required	
612.120	Permits to be Visibly Affixed or Placed	
612.130	Permit to Sell or Rent	
612.140	Transfer	
612.150	Permit to Operate, When Required	
612.160	General Requirements for Applications for Authority to Construct and Operating Permits	
612.170	Information Requirement for Application for Permits	
612.180	Standards for Granting Permits	
612.190	Cancellation of Authority to Construct	
612.200	Testing Prior to Granting of Operating Permit	
612.210	Action on Applications for Permits	
612.220	Suspension or Revocation of Permits	
612.230	Suspension or Revocation of Operating Permits or Authority to Construct, Board Hearing, Stay of Action	
612.240	Surrender of Permits	
612.250	Fees - When Payable - Exceptions	
612.260	Permit Fees - Schedules	
612.270	Permit Fees; Refund	
612.280	Testing by Order of the Board	
612.290	Right of Entry; Inspections; Samples	
612.300	Variances	
612.305	Variances Granted by Director	
612.310	Upset Conditions, Breakdown or Scheduled Maintenance	
612.320	Service of Notice	
612.330	Reports of Division Technical Experts; Presumptive Evidence of Facts	
612.335	Permitted Hours of Incinerator Operation	
612.340	Air Pollution Nuisances Prohibited	
612.350	Disclosure of Secret Processes Prohibited	
612.360	Disclosure of Secret Processes	
612.370	False or Misleading Oral Statements; Unlawful Reproduction or Alteration of Documents	
612.380	Interfering With or Obstructing Division Personnel	
612.390	Penalties for Violation	
612.400	Construction	



## Kansas City Metropolitan Area

The following table summarizes the state and federal applicable requirements that may apply to specific emission units located in the Kansas City Metropolitan area. Regulations that apply facility-wide are not shown the table. Facilities located in the Kansas City Metropolitan area must submit Forms 5A5 and 5B.

	<b>Regulation</b>	<b>10 CSR 10-6.070 (40 CFR 60 Subpart OOO) Nonmetallic Mineral Processing Plants</b>	<b>10 CSR 10-6.070 (40 CFR 60 Subpart Kb) Volatile Organic Liquid Storage Vessels after July 23, 1984</b>	<b>10 CSR 10-2.030 Restriction of Emission of Particulate Matter from Industrial Processes</b>	<b>10 CSR 10-2.040 Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect heating**</b>	<b>10 CSR 10-2.060 Restriction of Visible Air Contaminants</b>	<b>10 CSR 10-2.080 Emission of Visible Air Contaminants from Internal Combustion Engines</b>	<b>10 CSR 10-2.210 Control of Emissions from Solvent Metal Cleaning</b>	<b>10 CSR 10-2.260(4), (6) Control of Petroleum Liquid Storage, Loading, and Transfer</b>	<b>10 CSR 10-6.260(5) Restriction of Emission of Sulfur Compounds from Indirect Heating Sources</b>
<b>Point Sources*</b>	<b>Form</b>	<b>5B</b>	<b>5B</b>	<b>5A5</b>	<b>5A5</b>	<b>5A5</b>	<b>5A5</b>	<b>5A5</b>	<b>5A5</b>	<b>5A5</b>
Crusher		X				X				
Screening operation		X				X				
Storage bin/Feed hopper		X				X				
Grinding mill		X				X				
Bagging operation		X				X				
Conveyors										
Transfer points - conveyor to bin/hopper		X				X				
Transfer points - conveyor to conveyor		X				X				
Transfer points - conveyor to pile						X				
Pile forming stacker						X				
Bucket Elevator		X				X				
Loading facility for enclosed truck or enclosed railcar station		X				X				
<b>Fugitives*</b>										
Haul roads		Only generally applicable facility-wide requirements apply to this source type								
Stockpiles		Only generally applicable facility-wide requirements apply to this source type								
Material loading/unloading/handling							X			
Drilling		Only generally applicable facility-wide requirements apply to this source type								
<b>Other</b>										
Tanks			X						X	
Heaters					X					X
Boilers					X					X
Non-mobile internal combustion engines				X			X			
Solvent metal cleaning operations emitting VOCs								X		

\*These sources are to be considered point sources with respect to determining PTE. Because NSPS Subpart OOO defines fugitive emissions as particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation, many of the sources identified as "point" for operating permit applicability purposes may be fugitive with respect to specific regulations.

\*\*Existing means installed or under construction on or before February 15, 1979, except that if altered, repaired, or rebuilt at a cost of 30 percent or more of its replacement cost, exclusive of routine maintenance, it shall be considered new.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2T	10 CSR 10-2.030	Restriction of Emission of Particulate Matter from Industrial Processes (10 CSR 10-2.030(3)(D)(1) exempts emissions from the grinding, crushing, and classifying operations at a rock quarry).	No person shall cause, suffer, allow or permit the emission of particulate matter in any one (1) hour from any source in excess of the amount determined by the following empirical equations: $\leq 30$ tons per hour: $E = 4.10 \times P^{0.67}$ $> 30$ tons per hour: $E = 55.0 \times P^{0.11-40}$ E=Emission limit in lbs/hr P=Maximum rated capacity in tons/hr	None	None	No reporting requirements.  <i>The "worst case" unit for a ready-mix concrete operation is a 200 ton/hr capacity uncontrolled pneumatic cement unloading to elevated storage silo, which has a PM emission factor of 0.27 lbs/ton. The corresponding PM emission limit is 58.5 lbs/hr. <math>[E = 55.0 \times (200)^{0.11-40} = 58.5]</math> If while transferring cement, the PM emission rate is <math>\leq 58.5</math> lbs/hr, then this production facility is inherently in compliance.</i>  $[ER = (200 \text{ tons/hr}) \times (0.27 \text{ lbs/ton}) = 54.0 \text{ lbs PM}_{10}/\text{hr} < 58.5 \text{ lbs/hr.}]$
2S	10 CSR 10-2.040	Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating	Existing - Commenced construction on or before February 15, 1979 (a) 10 MMBtu/hr or less, Emission Limit = 0.60 lbs/MMBtu/hr., or (b) Between 10 MMBtu/hr and 5,000 MMBtu/hr., $E = 1.09 \times Q^{-0.259}$  New - Commenced construction after February 15, 1979 (a) 10 MMBtu or less, Emission Limit = 0.40 lbs/MMBtu/hr., or (b) Between 10 MMBtu/hr and 1000 MMBtu/hr., $E = 0.80 \times Q^{-0.301}$ where E= particulate emission rate in lbs/MMBtu/hr and Q = the indirect heating source rated heat input in MMBtu/hr.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a new 10 MMBtu/hr boiler fired with #5 fuel oil, which has a PM emission factor of 8.34xS lbs/1,000 gal and the maximum sulfur content of the No. 5 fuel oil is 4.0%. The most restrictive PM emission limit is 0.40 lb/MMBtu. If while burning #5 fuel oil the PM ER is <math>\leq 0.40</math> lb/MMBtu, then all indirect heating source at this production facility are inherently in compliance.</i>  $[ER = (8.34 \text{ lbs/1,000 gal} \times 4) \times 1 \text{ gal/150,000 Btu} \times (1,000,000 \text{ Btu/MMBtu}) = 0.22 \text{ lbs/MMBtu} < 0.40 \text{ lbs/MMBtu.}]$

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A2, 2B2, 2C2, 2D2, 2E2, 2F2, 2G2, 2H2, 2L, 2R2, 2S	10 CSR 10-2.060	Restriction of Emission of Visible Air Contaminants	Opacity of emissions not to exceed 20 percent. A person may discharge into the ambient air from any single source of emission for a period(s) aggregating not more than six minutes in any sixty minutes air contaminants an opacity not to exceed 60 percent. (Does not apply to internal combustion engines).	Facility or inspector will conduct an annual visible emissions inspection walk-through. The annual walk-through will consist of a visual inspection of each emission unit and control device at the facility for the presence of visible emissions. Upon the identification of particular units or control devices having visible emissions, an observer, trained in Method 9 procedures will make an observation. The presence of visible emissions or lack thereof (and if necessary, the opacity reading) will be logged and all records will be maintained .		Previous inspection reports can be used to certify compliance with this regulation.  Ongoing compliance demonstration: If a Method 9 opacity test results in an opacity reading in excess of the applicable standard, the facility will take all necessary steps to minimize the excess emissions.
2T	10 CSR 10-2.080	Emission of Visible Air Contaminants From Internal Combustion Engines	<p>No person may cause or permit the emission of visible air contaminants in excess of the 20 percent opacity from the internal combustion engine of the following:</p> <p>Portable or stationary equipment for longer than ten consecutive seconds</p> <p>A motor vehicle while the vehicle is stationary for longer than ten seconds</p> <p>A motor vehicle after the vehicle has moved more than one hundred yards from a place where the vehicle was stationary</p> <p>Exceptions. The provisions of this regulation shall not apply to jet or other aircraft engines. This regulation shall not apply when the presence of uncombined water is the only reason for the failure of an emission to meet the requirements of this regulation.</p>	None	None	Previous inspection reports can be used for compliance certification.

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2U	10 CSR 10-2.210 (applies to Clay, Jackson, and Platte Counties)	Control of Emissions from Solvent Metal Cleaning (Solvent metal cleaners using methyl chloroform or refrigerant 113 are exempt from the requirements of this rule.)  Regulation is only applicable to VOC emissions.	Specifies equipment, operating procedures, and training requirements for the reduction of hydrocarbon emissions from solvent metal cleaning operations using cold cleaners, open top vapor degreasers or conveyORIZED degreasers. See regulation for specific requirements.	Monthly inventory records of solvent types and amounts purchased and solvent consumed for a period of two years. Records on all types and amounts of solvent containing waste material transferred either to a contract reclamation service or to a disposal facility and all amounts distilled on the premises.  Records on maintenance and repair logs for both the degreaser and any associated control equipment.  Records of solvent metal cleaning training for each employee.	See 10 CSR 10-2.210(4) for operating procedures.	Records kept onsite.
2R1, 2R2	10 CSR 10-2.260(4),(6) (Clay, Jackson, and Platte Counties)	Control of Petroleum Liquid Storage, Loading and Transfer  Regulation is only applicable to VOC emissions.	Gasoline storage tanks > 2,000 gallon capacity must have a submerged fill pipe and a vapor recovery system or other systems of an equal control efficiency if approved by director.  Gasoline storage tanks > 250 gallons but less than 2,000 gallons must have a submerged fill pipe if installed after June 12, 1986.  Vapor recovery systems (see regulations for details of this rule).	Records of the number of delivery vessels unloaded and their owners shall be kept for two years.  Records of routine and unscheduled maintenance and repairs and of all results of tests conducted.  Records shall be kept for two years and shall be made available to the Director upon request.	None	Records kept onsite.

# Kansas City Metropolitan Area

# APPLICABLE REQUIREMENTS

# Form 5A5

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2S	10 CSR 10-6.260(5)	Restriction of Emissions of Sulfur Compounds from Indirect Heating Sources  Regulation is only applicable to SO <sub>2</sub> emissions.	For indirect heating sources $\geq 350,000$ Btu/hr actual heat input, no person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per MMBtu actual heat input averaged on any three hour basis.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a SO<sub>x</sub> emission factor of "158.6 x Sulfur Content (%)" / 1,000 gal and "worst case" sulfur content of 4%. In reality, it will be no higher than 1.5%. The SO<sub>2</sub> emission limit is 8.0 lb/MMBtu. If while burning #5 fuel oil the SO<sub>2</sub> ER is <math>\leq 8.0</math> lb/MMBtu, then all indirect heating sources at this production facility are inherently in compliance.</i>  <i>[ER = ((158.6 x 4) lbs/1000 gal) x (1 gal/150,000 Btu) x (1,000,000 Btu/MMBtu) = 4.22 lbs SO<sub>2</sub>/MMBtu &lt; 8.0 lbs/MMBtu]</i>
Facility-wide	10 CSR 10-2.070	Restriction of Emissions of Odor	No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that the odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than fifteen minutes apart within the period of one hour. These measurements may be made with a Scentometer as manufactured by the Barnebey-Cheney Company or by a similar technique that will give equivalent results, as agreed to at the time by the source operator and the staff director.	None	None	No reporting requirement/compliance demonstration.  The sources covered by this general permit inherently do not have odors.  Previous inspection reports can be used to certify compliance with this regulation.

**Kansas City Metropolitan Area**
**APPLICABLE REQUIREMENTS**
**Form 5A5**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-2.100	Open Burning Restrictions	<p>No person may conduct, cause, permit or allow open burning of refuse.</p> <p>No person may conduct, cause, permit or allow a salvage operation by open burning.</p> <p>No person may conduct, cause, permit or allow the disposal of trade wastes by open burning.</p>	None	None	Maintain records of any open burning allowed by permit.
Facility-wide	10 CSR 2.150	Time Schedule for Compliance	<p>Except as otherwise specified, compliance with the provisions of this regulation shall be according to the following time schedule:</p> <p>All new installations shall comply as of going into operation;</p> <p>All existing installations not in compliance as of March 25, 1976 shall be in compliance within six months of the effective date (September 25, 1976) unless the owner or person responsible for the operation of the installation shall have submitted to the staff director, in a form and manner satisfactory to him/her, a program and schedule for achieving compliance, the program and schedule to contain a date on or before which full compliance will be attained and other information as the staff director may require. If approved by the staff director, this date will be the date on which the person shall comply.</p> <p>All other dates notwithstanding, all existing installations in Buchanan County shall be in compliance with this regulation by September 1, 1970.</p>	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-6.050	Startup, Shutdown, and Malfunction Conditions	None	None	None	Upon receipt of a Notice of Excess Emissions, a facility may accept the conditions of the notice or provide information to demonstrate that the excess emissions were the consequence of a malfunction, start-up or shutdown. See the regulation for the specific information to be submitted by the facility.

# Kansas City Metropolitan Area

# APPLICABLE REQUIREMENTS

# Form 5A5

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-6.060	Construction Permits Required	Varies with "Permit to Construct"	None	None	Obtain permits as needed.
Facility-wide	10 CSR 10-6.065	Operating Permits	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	Submit permit application as required. A compliance certification statement shall be submitted by April 1 each year.
Facility-wide	10 CSR 10-6.110	Submission of Emission Data, Emission Fees and Process Information	Emission Fees: \$25.70 per actual ton of pollutant or as amended by rule.	None	None	Submit an annual emission inventory on forms furnished by the program by April 1, including emission data, emission fees, and process information for the previous calendar year.
Facility-wide	10 CSR 10-6.130	Controlling Emissions during Episodes of High Air Pollution Potential	This rule specifies the conditions that establish an air pollution alert (yellow, red, or emergency) and the associated procedures and emissions reduction objectives for dealing with each.	None	None	Submission of emergency plan if required by the Director and initiation of emergency plan upon notification of Director.
Facility-wide	10 CSR 10-6.150	Circumvention	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-6.170	Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin	No visible particulate matter in the ambient air beyond property line of origin; or, no particulate matter found on surfaces beyond property line of origin.	None	None	Previous inspection reports can be used to demonstrate compliance with this regulation.
Facility-wide	10 CSR 10-6.260(3)	Restriction of Concentration of Sulfur Compounds in Emissions	Existing sources not to emit gases containing more than 2,000 ppmv SO <sub>2</sub> , or 70 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period; new sources not to emit gases containing more than 500 ppmv SO <sub>2</sub> or more than 35 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period. (Does not apply to indirect heating sources).	None	Source testing.	No reporting requirements. Most of the source operations at plants covered by this general permit generally will not be subject to 10 CSR 10-6.260(3) as they will be indirect heating sources.

**Kansas City Metropolitan Area****APPLICABLE REQUIREMENTS****Form 5A5**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-6.260(4)	Restriction of Concentration of Sulfur Compounds in Ambient Air	No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentration exceeding the National Ambient Air Quality Standards.	None	None	None

**You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.**



## City of Kansas City Rules

## Form 5A6

Facilities located in the city of Kansas City are subject to the city of Kansas City (Form 5A6), the Kansas City Metropolitan Area (Form 5A5), and the regulations applicable to the entire state of Missouri (Form 5A5). The Kansas City Metropolitan Area regulations overlap the city of Kansas City regulations regarding emission sources. Therefore, the city of Kansas City regulations have not been summarized other than being listed below. Facilities should determine the applicability of each rule and check the column below to indicate if a specific city of Kansas City regulation is applicable to the facility. Facilities should determine the compliance status with each rule and summarize any non-compliance on Form 7.

Section	Title	Check if applicable
8-1	Title of Chapter	
8-2	Definitions	
8-3	Administration and Enforcement	
8-4	Open Burning (10-2.100)	
8-5	Emission of Particulate Matter (10-2.030, 2.040, 2.060, 2.080)	
8-6	Restriction of Emission of Sulfur Compounds (10-2.200)	
8-7	Restriction of Emission of Odors (10-2.070)	
8-8	Emission of Volatile Organic Compounds (10-2.210, 2.260)	
8-9	Restriction of Emission of Hazardous Air Pollutants (see Form 5B)	
8-10	Review of New Sources and Modifications; Permit for Construction or Major Modification (10-6.060)	
8-11	Permit to Operate; Notification and Recordkeeping (10-6.065)	
8-12	Air Quality Control Board, Appeals and Variances	
8-13	Confidential Information	
8-14	Dilution of Emission (10-6.150)	
8-15	Startup, Shutdown and Malfunction Condition (10-6.050)	
8-16	Actionable Rights; Violations Declared Public Nuisance	
8-17	Emergency Condition	
8-18	Rules for Controlling Emissions During Periods of High Air Pollution Potential (10-6.130)	
8-19	Penalties	
8-20	Fees (10-6.110)	

## Springfield - Greene County Area

5A7

The following table summarizes the state and federal applicable requirements that may apply to specific emission units located in the Springfield - Greene County area. Regulations that apply facility-wide are not shown in the table. Facilities located in the Springfield - Greene County area must submit Forms 5A7 and 5B.

	Regulation	10 CSR 10-6.070 (40 CFR 60 Subpart OOO) Nonmetallic Mineral Processing Plants	10 CSR 10-6.070 (40 CFR 60 Subpart Kb) Volatile Organic Liquid Storage Vessels after July 23, 1984	10 CSR 10-4.030 Restriction of Emission of Particulate Matter from Industrial Processes	10 CSR 10-4.040 Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect heating	10 CSR 10-4.060(1) & (2) Visible Emissions, Restriction of Emission of Visible Air Contaminants from Existing and New Installations **	10 CSR 10-6.260(5) Restriction of Emission of Sulfur Compounds from Indirect Heating Sources
		5B	5B	5A7	5A7	5A7	5A7
<b>Point Sources *</b>	<b>Form</b>						
Crusher		X				X	
Screening operation		X				X	
Storage bin/Feed hopper		X				X	
Grinding mill		X				X	
Bagging operation		X				X	
Conveyors							
Transfer points - conveyor to bin/hopper		X				X	
Transfer points - conveyor to conveyor		X				X	
Transfer points - conveyor to pile						X	
Pile forming stacker						X	
Bucket Elevator		X				X	
Loading facility for enclosed truck or enclosed railcar station		X				X	
<b>Fugitives *</b>							
Haul roads		Only generally applicable facility-wide requirements apply to this source type					
Stockpiles		Only generally applicable facility-wide requirements apply to this source type					
Material loading/unloading/handling						X	
Drilling		Only generally applicable facility-wide requirements apply to this source type					
<b>Other</b>							
Tanks			X			X	
Heaters					X	X	X
Boilers					X	X	X
Non-mobile internal combustion engines				X			

\*These sources are to be considered point sources with respect to determining PTE. Because NSPS Subpart OOO defines fugitive emissions as particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation, many of the sources identified as "point" for operating permit applicability purposes may be fugitive with respect to specific regulations.

\*\* Existing means installed or under construction on or before September 24, 1971, except that if altered, repaired, or rebuilt at a cost of 50 percent or more of its replacement cost, exclusive of routine maintenance, it shall be considered new.

## Springfield - Greene County Area

## APPLICABLE REQUIREMENTS

## Form 5A7

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2T	10 CSR 10-4.030	Restriction of Emission of Particulate Matter from Industrial Processes (10 CSR 10-4.030(3)(B)(1) exempts the grinding, crushing and classifying operations at rock quarries).	No person shall cause, suffer, allow or permit the emission of particulate matter in any one hour from any source in excess of the amount determined by the following empirical equations: $\leq 30$ tons per hour: $E = 4.10 \times P^{0.67}$ $> 30$ tons per hour: $E = 55.0 \times P^{0.11-40}$ E=Emission limit in lbs/hr P=Maximum rated capacity in tons/hr	None	None	No reporting requirements.  <i>The "worst case" unit for a ready-mix concrete operation is a 200 ton/hr capacity uncontrolled pneumatic cement unloading to elevated storage silo, which has a PM emission factor of 0.27 lbs/ton. The corresponding PM emission limit is 58.5 lbs/hr. <math>[E = 55.0 \times (200)^{0.11-40} = 58.5]</math> If while transferring cement, the PM emission rate is <math>\leq 58.5</math> lbs/hr, then this production facility is inherently in compliance.</i>  $[ER = (200 \text{ tons/hr}) \times (0.27 \text{ lbs/ton}) = 54.0 \text{ lbs PM}_{10}/\text{hr} < 58.5 \text{ lbs/hr.}]$
2S	10 CSR 10-4.040	Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating	For indirect heating units with the following heat input ranges, the following emission limits or equations apply: (a) 10 MMBtu or less, Emission Limit = 0.60 lbs/MMBtu., or (b) Between 10 MMBtu/hr and 10,000 MMBtu, $E = 1.02 \times Q^{-0.233}$ where E= particulate emission rate in lbs/MMBtu/hr and Q = the dryer or boiler rated heat input in MMBtu/hr.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a PM emission factor of 8.34xS lbs/1,000 gal and a maximum sulfur content of the No. 5 fuel oil is 4.0%. The PM emission limit is 0.60 lb/MMBtu. If while burning #5 fuel oil the PM ER is <math>\leq 0.60</math> lb/MMBtu, then all indirect heating sources at all applicable production facilities are inherently in compliance.</i>  $[ER = (8.34 \text{ lbs/1,000 gal} \times 4) \times (1 \text{ gal/150,000 Btu}) \times (1,000,000 \text{ Btu/1 MMBtu}) = 0.22 \text{ lbs PM/MMBtu/hr} < 0.60 \text{ lbs MMBtu.}]$

## Springfield - Greene County Area

## APPLICABLE REQUIREMENTS

## Form 5A7

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A2, 2B2, 2C2, 2D2, 2E2, 2F2, 2G2, 2H2, 2L, 2R2, 2S	10 CSR 10-4.060(1) and (2)	Restriction of Emission of Visible Air Contaminants  10 CSR 10-10.4060(3)(E) provides exception to the limitations from this regulation including internal combustion engines.	Existing: Opacity of emissions not to exceed or equal 40 percent (except for a period aggregating not more than six minutes in any 60 minute period, the opacity may not exceed 60 percent).  New: Opacity of emissions not to exceed or equal 20 percent (except for a period aggregating not more than six minutes in any 60 minute period, the opacity may not exceed 60 percent).	Facility or inspector will conduct an annual visible emissions inspection walk-through. The annual walk-through will consist of a visual inspection of each emission unit and control device at the facility for the presence of visible emissions. Upon the identification of particular units or control devices having visible emissions, an observer, trained in Method 9 procedures will make an observation. The presence of visible emissions or lack thereof (and if necessary, the opacity reading) will be logged and all records will be maintained.		Previous inspection reports can be used to certify compliance with this regulation.  Ongoing compliance demonstration: If a Method 9 opacity test results in an opacity reading in excess of the applicable standard, the facility will log the results and will take all necessary steps to minimize the excess emissions.
2S	10 CSR 10-6.260(5)	Restriction of Emissions of Sulfur Compounds from Indirect Heating Sources  Regulation is only applicable to SO <sub>2</sub> emissions.	For indirect heating sources $\geq 350,000$ Btu/hr actual heat input, no person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight pounds of sulfur dioxide per MMBtu actual heat input averaged on any three hour basis.	None	None	No reporting requirements.  <i>The "worst case" unit for an applicable production facility is a 10 MMBtu/hr indirect heating source fired with #5 fuel oil, which has a SO<sub>x</sub> emission factor of "158.6 x Sulfur Content (%)" / 1,000 gal and "worst case" sulfur content of 4%. In reality, it will be no higher than 1.5%. The SO<sub>2</sub> emission limit is 8.0 lb/MMBtu. If while burning #5 fuel oil the SO<sub>2</sub> ER is <math>\leq 8.0</math> lb/MMBtu, then all indirect heating sources at this production facility are inherently in compliance.</i>  <i>[ER = ((158.6 x 4) lbs/1000 gal) x (1 gal/150,000 Btu) x (1,000,000 Btu/MMBtu) = 4.22 lbs SO<sub>2</sub>/MMBtu &lt; 8.0 lbs/MMBtu]</i>

**Springfield - Greene County Area**
**APPLICABLE REQUIREMENTS**
**Form 5A7**

Form Number	Regulatory Authority	Description	Emission Limitation	Recordkeeping Requirement	Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	10 CSR 10-4.070	Restriction of Emissions of Odors	No persons may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that the odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than fifteen minutes apart within the period of one hour.	None	None	No reporting requirement/compliance demonstration.  The sources covered by this general permit are inherently do not have odors.  Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-4.090	Open Burning Restrictions	Refuse Burning Restrictions. No person may conduct, cause, permit or allow open burning of refuse.  Prohibition of Salvage Operations by Open Burning. No person may conduct, cause, permit or allow a salvage operation by open burning.  Restriction on Open Burning of Trade Wastes. No person may conduct, cause, permit or allow the disposal of trade wastes by open burning. (See specific regulation for exceptions to this limitation.)	None	None	Maintain records of any open burning allowed by permit.
Facility-wide	10 CSR 10-4.140	Time Schedule for Compliance	Except as otherwise specified, compliance with the provisions of these regulations shall be according to the following time schedule:  All new installations shall comply as of going into operation;  All existing installations not in compliance as of March 25, 1976 shall be in compliance by September 25, 1976 unless the owner or person responsible for the operation of the installation shall have submitted to the staff director in a form and manner satisfactory to him/her a program and schedule for achieving compliance.  The staff director may require persons submitting the program to submit subsequent periodic reports on progress in achieving compliance.	None	None	Previous inspection reports can be used to certify compliance with this regulation.

**Springfield - Greene County Area****APPLICABLE REQUIREMENTS****Form 5A7**

<b>Form Number</b>	<b>Regulatory Authority</b>	<b>Description</b>	<b>Emission Limitation</b>	<b>Recordkeeping Requirement</b>	<b>Monitoring/Testing Requirement</b>	<b>Reporting Requirement/ Compliance Demonstration</b>
Facility-wide	10 CSR 10-6.050	Startup, Shutdown, and Malfunction Conditions	None	None	None	Upon receipt of a Notice of Excess Emissions, a facility may accept the conditions of the notice or provide information to demonstrate that the excess emissions were the consequence of a malfunction, start-up or shutdown. See the regulation for the specific information to be submitted by the facility.
Facility-wide	10 CSR 10-6.060	Construction Permits Required	Varies with "Permit to Construct"	None	None	Obtain permits as needed.
Facility-wide	10 CSR 10-6.065	Operating Permits	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	None, unless required by a voluntarily proposed condition.	Submit permit application as required. A compliance certification statement shall be submitted by April 1 each year.
Facility-wide	10 CSR 10-6.110	Submission of Emission Data, Emission Fees and Process Information	Emission Fees: \$25.70 per actual ton of pollutant or as amended by rule.	None	None	Submit an annual emission inventory on forms furnished by the program by April 1, including emission data, emission fees, and process information for the previous calendar year.
Facility-wide	10 CSR 10-6.130	Controlling Emissions during Episodes of High Air Pollution Potential	This rule specifies the conditions that establish an air pollution alert (yellow, red, or emergency) and the associated procedures and emissions reduction objectives for dealing with each.	None	None	Submission of emergency plan if required by the Director and initiation of emergency plan upon notification of Director.
Facility-wide	10 CSR 10-6.150	Circumvention	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.	None	None	Previous inspection reports can be used to certify compliance with this regulation.
Facility-wide	10 CSR 10-6.170	Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin	No visible particulate matter in the ambient air beyond property line of origin; or, no particulate matter found on surfaces beyond property line of origin.	None	None	Previous inspection reports can be used to demonstrate compliance with this regulation.

**Springfield - Greene County Area****APPLICABLE REQUIREMENTS****Form 5A7**

<b>Form Number</b>	<b>Regulatory Authority</b>	<b>Description</b>	<b>Emission Limitation</b>	<b>Recordkeeping Requirement</b>	<b>Monitoring/Testing Requirement</b>	<b>Reporting Requirement/ Compliance Demonstration</b>
Facility-wide	10 CSR 10-6.260(3)	Restriction of Concentration of Sulfur Compounds in Emissions	Existing sources not to emit gases containing more than 2,000 ppmv SO <sub>2</sub> , or 70 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period; new sources not to emit gases containing more than 500 ppmv SO <sub>2</sub> or more than 35 mg/m <sup>3</sup> of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period. (Does not apply to indirect heating sources).	None	Source testing.	No reporting requirements. Most of the source operations at plants covered by this general permit generally will not be subject to 10 CSR 10-6.260(3) as they will be indirect heating sources.
Facility-wide	10 CSR 10-6.260(4)	Restriction of Concentration of Sulfur Compounds in Ambient Air	No person shall cause or permit the mission of sulfur compounds from any source which causes or contributes to concentration exceeding the National Ambient Air Quality Standards.	None	None	None
<b>You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.</b>						

# City of Springfield Rules

# Form 5A8

Facilities located in the city of Springfield are subject to the city of Springfield (Form 5A8), the Springfield-Greene County Area (Form 5A7), and the regulations applicable to the entire state of Missouri (Form 5A7). The Springfield-Greene County Area regulations overlap the city of Springfield regulations regarding emission sources. Therefore the city of Springfield regulations have not been summarized other than being listed below. Facilities should determine the applicability of each rule and check the column below to indicate if a specific city of Springfield regulation is applicable to the facility. Facilities should determine the compliance status with each rule and summarize any non-compliance on Form 7.

Section	Title	Check if applicable
Article I	In General	
Article II	Administrative Organization	
Article III	Approval of Planned Installations (10-6.060)	
Article IV*	Restriction of Emission of Visible Air Contaminants from Equipment (10-4.060)	
Article V	Emission of Particulate Matter from Fuel Burning Equipment (10-4.040)	
Article VI	Restriction of Emission of Particulate Matter from Industrial Processes (10-4.030)	
Article VII	Stack Emission Test Method	
Article VIII	Open Burning (10-4.090)	
Section 2A-32	Emergency Issuance of Permits to Burn Vegetative Waste	
Article IX	Incinerator	
Article X†	Control of Odors in the Ambient Air (10-4.070)	
Article XI	Nuisances Because of Air Pollution	
Article XII	Submission of Information	
Article XIII	Variance Provisions	
Article XIV	Sealing	
Article XV	Hearing	
Article XVI	Breakdown of Equipment	
Article XVII	Circumvention	
Article XVIII	Service of Orders or Notices	
Article XIX	Enforcement of This Chapter	
Article XX	Test Methods and Tables	

\*Article VI, Sec. 2A-10 is more restrictive than 10-4.060 for new equipment and allows only a 40 percent opacity for a period aggregating not more than six minutes in any 60-minute period, except that the opacity may reach 60 percent if caused by the starting or cleaning of a fire and if it does not occur on more than three (3) occasions during any consecutive 24-hour period.

†Article X, Sec. 2A-39 is substantially different than 10-4.070 and the emission limitation is written below:

**Section 2A-39. Prohibition on emission of odor.** No person shall emit odorous matter such as to cause an objectionable odor.

- (a) On or adjacent to residential, recreational, institutional, retail sales, hotel or educational premises, or
- (b) On or adjacent to industrial premises when air containing such odorous matter is diluted with twenty (20) or more volumes of odor free air, or
- (c) On or adjacent to industrial premises other than those in (a) and (b) when air containing such odorous matter is diluted with four (4) or more volumes of odor free air.

**Section 2A-40. Determination of objectionable odor.** The above requirements shall apply only to objectionable odors. An odor will be deemed objectionable when thirty percent (30%) or more of a sample of twenty (20) or more people or seventy-five percent (75%) of a sample of less than twenty (20) people exposed to it believe it to be objectionable in usual places of occupancy.



# FEDERAL APPLICABLE REQUIREMENTS

**Form 5B**

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart A	General provisions applicable if Subpart OOO applies.	See 40 CFR 60.1-19.	See 40 CFR 60.1-19.
2R1	10 CSR 10-6.070 40 CFR 60 Subpart Kb	All volatile organic liquid storage vessels modified, constructed, or reconstructed after July 23, 1984 (1) With a capacity greater than 10,567 gallons but less than 19,813 gallons (2) With a capacity between 19,813 gallons and 39,889 gallons with a vapor pressure less than 15 kPa, or (3) With a capacity equal to or greater than 39,889 gallons with a vapor pressure less than 3.5 kPa. (Fuel oil and diesel fuel have vapor pressures less than 3.5 kPa.)	For the life of the source, records will be kept readily accessible showing the dimension of the storage vessel(s) and an analysis showing the capacity of the storage vessel(s).	None
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.672(a)(1)	Shall not cause to be discharged from any transfer point on a conveyor belt or any other affected facility, stack emissions, which contain particulate matter in excess of 0.05 gr/dscm (0.02 grains/dscf).  Note: Discharge must be from a stack.	Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter. Method 9 and the procedures in 60.11 shall be used to determine opacity.	See 40 CFR 60.675 and 60.676(f).
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.672(a)(2)	Shall not cause to be discharged from any transfer point on a conveyor belt, or any other affected facility, stack emissions exhibiting greater than 7 percent opacity, unless using a wet scrubber. Facilities using wet scrubber must comply with 60.676(c), (d), and (e).  Note: Discharge must be from a stack.	Method 9 and the procedures in 60.11 shall be used to determine opacity.	See 40 CFR 60.675 and 60.676(f).

# FEDERAL APPLICABLE REQUIREMENTS

Form 5B

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.672(b)	<p>Shall not cause to be discharged from any transfer point on a conveyor belt, or other affected facility, fugitive emissions exhibiting greater than 10% opacity, except as provided by 60.672(c) (crushers) or 60.672(e).</p> <p>Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from all requirements in section 60.672.</p>	<p>In determining compliance with the particulate matter standards in 60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in 60.11, with the additions in 60.675(c)(1), (2), and (3) or 60.675(e)(1) as an alternative to 60.675(c).</p> <p>60.675(e)(1) - as an alternative to the method and procedure of 60.675(c), if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:</p> <p>(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.</p> <p>(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.</p>	See 40 CFR 60.675 and 60.676(f).
2A1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.672(c)	Shall not cause to be discharged from any crusher, at which a capture system is not used, fugitive emissions greater than 15% opacity.	<p>In determining compliance with the particulate matter standards in 60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in 60.11, with the additions in 60.675(c)(1), (2), and (3) or 60.675(e)(1) as an alternative to 60.675(c).</p> <p>60.675(e)(1) - as an alternative to the method and procedure of 60.675(c), if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:</p> <p>(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.</p> <p>(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.</p>	See 40 CFR 60.675 and 60.676(f).

# FEDERAL APPLICABLE REQUIREMENTS

Form 5B

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.672(e)(1), (2)	Each enclosed, affected facility must either comply with 60.672(a), (b) and (c), or:  1. The building enclosing the facility must not cause to be discharged any visible emissions except from a vent as defined in 60.671, and  2. Shall not cause to be discharged from any vent, emissions which exceed the stack emission limits in 60.672(a)(1) and 60.672(a)(2).	In determining compliance with 60.672(e)(1), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes. See 60.672(a) for other testing requirements.	See 40 CFR, 60.675 and 60.676(f).
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.674(a)(b)	The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain, and operate the following monitoring devices.  60.674(a). A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within $\pm 250$ pascals $\pm 1$ inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.  60.674(b). A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within $\pm 5$ percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.	60.676(c). During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate. To comply with 60.676(d), the owner or operator shall record the measurements as required in 60.676(c) using the monitoring devices in 60.674 (a) and (b) during each particulate matter run and shall determine the averages.	See 40 CFR 60.675(a), (b)(1)  60.676(d). After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than $\pm 30$ percent from average determined in most recent performance test.  60.676(e) The reports required under paragraph (d) shall be postmarked within 30 days following end of the second and fourth calendar quarters.
2A1, 2D1, 2G1, 2E1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(a)(1)	The owner or operator of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or rail car loading station seeking to comply with 60.670(d) [exemption from 60.672, 60.674, and 60.675 for replacement of equipment of equal or smaller size] shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. (i) The rated capacity in tons per hour of the existing facility being replaced and (ii) The rated capacity in tons per hour of the replacement equipment.	None	Submit data as required.

# FEDERAL APPLICABLE REQUIREMENTS

Form 5B

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2B1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(a)(2)	The owner or operator of a screening operation seeking to comply with 60.670(d) [exemption from 60.672, 60.674, and 60.675 for replacement of equipment of equal or smaller size] shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. (i) The total surface area of the top screen of the existing screening operation being replaced and (ii) The total surface area of the top screen of the replacement screening operation.	None	Submit data as required.
2F1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(a)(3)	The owner or operator of a conveyor belt seeking to comply with 60.670(d) [exemption from 60.672, 60.674, and 60.675 for replacement of equipment of equal or smaller size] shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. (i) The width of the existing belt being replaced and (ii) The width of the replacement conveyor belt.	None	Submit data as needed.
2C1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(a)(4)	The owner or operator of a storage bin seeking to comply with 60.670(d) [exemption from 60.672, 60.674, and 60.675 for replacement of equipment of equal or smaller size] shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. (i) The rated capacity in tons of the existing storage bin being replaced and (ii) The rated capacity in tons of replacement storage bins.	None	Submit data as needed.
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(b)	Each owner or operator seeking to comply with 60.670(d) shall submit the following data to the Director of the Emission Standards and Engineering Division, (MD-13), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711, (or as modified by rule). (1) The information described in 60.676(a). (2) A description of the control device used to reduce particulate matter emissions from the existing facility and a list of all other pieces of equipment controlled by the same control device; and (3) The estimated age of the existing facility.	None	Submit data as needed.

# FEDERAL APPLICABLE REQUIREMENTS

**Form 5B**

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(f)	The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and (c) and reports of observations using Method 22 to demonstrate compliance with 60.672(e).	None	Written reports of all performance tests.
2A1, 2B1, 2C1, 2D1, 2E1, 2F1, 2G1, 2H1	10 CSR 10-6.070 40 CFR 60 Subpart OOO Section 60.676(g)	The requirements of this paragraph remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected sources within the State will be relieved of the obligation to comply with paragraphs (a), (c), (d), (e), and (f) of this section, provided that they comply with requirements established by the State. Compliance with paragraph (b) of this section will still be required.	None	Reporting requirements from alternative means of compliance surveillance are applicable if adopted.
Facility- wide	40 CFR 61 Subpart M	National Emissions Standards for Asbestos	See 40 CFR 61.145 and 40 CFR 61.150 for notification and procedural requirements to be followed during demolition and renovation.	Previous DNR inspection reports can be used to certify compliance with this regulation. See 40 CFR 61.153 for reporting requirements.
Facility- wide	40 CFR 68	Chemical Accident Prevention Provisions	See 40 CFR 68.	See 40 CFR 68. If 40 CFR 68 is applicable to the facility, a certification letter, signed by the responsible official, attesting that the company will comply with the applicable requirements of 40 CFR 68 should be included with the application.

# FEDERAL APPLICABLE REQUIREMENTS

Form 5B

Form Number	Regulatory Authority	Description/Emission Limitation	Recordkeeping Requirement/ Monitoring/Testing Requirement	Reporting Requirement/ Compliance Demonstration
Facility-wide	40 CFR Part 82 Subparts B and F	Protection of Stratospheric Ozone - Servicing of Motor Vehicle Air Conditioners and Recycling and Emissions Reduction	See 40 CFR 82.	<p>Previous DNR inspection reports can be used to certify compliance with this regulation. Applicable records will be kept onsite. If all work on air conditioning units and refrigeration devices is done by contractors, regulatory responsibility is placed upon said contractors.</p> <p>If 40 CFR 82 is applicable to the facility, a certification letter, signed by the responsible official, attesting that the company will comply with the applicable requirements of 40 CFR 68 should be included with the application.</p>
<p><b>You must attach a completed FORM 7, "Compliance Plan/Status" if the Emission Units is currently failing to meet any Applicable Requirements, FORM 7 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.</b></p>				

## ADDITIONAL INFORMATION AND COMMENTS

Form 6

Provide additional information and comments as necessary to support the application.

**COMPLIANCE PLAN/STATUS/CERTIFICATION****Form 7****1. Compliance status with all applicable requirements effective at the time of the issuance of this permit.**

Will your facility be in compliance with all applicable requirements at the time of the permit issuance and continue to comply with these requirements for the duration of this permit?

Yes: \_\_\_\_\_ No: \_\_\_\_\_ (If No, Complete Section 2 of this form)

**2. Schedule for achieving compliance**

**Applicable Requirement  
for Which Compliance  
is Not Achieved**

**How Will Compliance Be Achieved with this Applicable Requirement?  
(include frequency and starting date)**

**3. Certification of compliance with all applicable requirements.**

*Except for requirements identified in the above statement for which compliance is not achieved, I hereby certify that, based on information and belief formed after reasonable inquiry, the air contaminant source identified in this application is in compliance with all applicable requirements.*

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Name  
(Typed or printed):** \_\_\_\_\_

**Title:** \_\_\_\_\_



**GENERAL PERMIT TO OPERATE  
BASIC STATE OR INTERMEDIATE  
STATIONARY AND PORTABLE  
SAND AND GRAVEL  
OPERATIONS**

**IS HEREBY ISSUED TO**

{NAME}  
{ADDRESS}  
{CITY, STATE ZIP}

**FOR THE OPERATION OF**

{FACILITY NAME}  
{LOCATION OF OPERATION}

{ADDRESS}  
{CITY, STATE}

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**1. Qualification for the General Operating Permit**

**1.1 Covered Sources**

- 1.1.1 Basic State and Intermediate State Installations [10 CSR 10-6.065(1)(B) and (C)].
- 1.1.2 The source is not a Part 70 source as defined in 10 CSR 10-6.045(1)(D).

**1.2 Conditions Not Allowed**

To be covered by this General Operating Permit, a source must not be subject to any of the following provisions:

- 1.2.1 Any construction permits issued pursuant to 10 CSR 10-6.060(7) and (8).
- 1.2.2 Any requirements of the acid rain program (Title IV).
- 1.2.3 Any requirements under Section 129(e) of the Act (Solid Waste Incinerator).

**1.3 Ineligibility Enforcement Action**

The permittee shall be subject to an enforcement action for operating without an individual operating permit if it is later determined that the source does not qualify for this General Operating Permit. The permitting authority's decision to issue this permit is based on the representations made by the permittee in the General Operating Permit application.

## **2. Operating Permit Flexibility and Modification**

- 2.1 The permittee shall have the permit flexibility to make changes as long as the proposed change is not considered a permit modification or does not exceed the emission limitations set in this General Operating Permit. A permit modification includes any change at the installation which increases the potential emissions of a criteria pollutant.
- 2.2 The owner or operator shall provide the permitting authority written notice at least seven (7) days prior to the proposed change. The written notice shall include a brief description of the change(s) within the permitted installation, the date on which the change is to occur, and any change in emissions. The permitting authority will notify the owner or operator whether the proposed change can be completed or will be considered a permit modification and have to undergo the appropriate procedures before the proposed change can be completed.
- 2.3 Administrative Permit Amendment
- The permittee is required to notify the permitting authority in writing of any administrative permit amendment regarding the permitted source. The source may implement the change upon submission of notice, subject to final action by the permitting authority. Administrative permit amendments include any change which:
- 2.3.1 Corrects typographical errors such as misspelled words, incorrect effective date, etc.
  - 2.3.2 Allows for a change in ownership or operational control of a source where the permitting authority determines that no other change in the General Operating Permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee must be submitted to the permitted authority.
  - 2.3.3 Incorporates into this permit the requirements of a unified construction permit issued by the permitting authority as long as potential emissions are less than 100 tons per year.
  - 2.3.4 Does not increase the potential emissions of a criteria pollutant equal to or greater than 100 tons per year.
  - 2.3.5 Any other change that the permitting authority determines to be of similar nature to those in this subsection.

## **3. Permit Duration, Applications, Renewal, and Expiration**

- 3.1 Permit Duration
- This permit is issued for a fixed term of five (5) years. The permit term shall commence on the date of issuance of this permit. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted.
- 3.2 Permit Application
- The owner or operator of the source eligible for coverage by this General Operating Permit shall have submitted a timely and complete application for coverage by the General Operating Permit in accordance with this section.
- 3.2.1 Timely Application
    - 3.2.1.1 Initial Application
      - Basic State - All basic state installations shall file complete application before May 13, 1998.

Intermediate - Installations with actual emissions >50% of the trigger level shall file before July 15, 1996. Installations with actual emissions <50% of trigger level shall file before May 13, 1997.

#### 3.2.1.2 Subsequent Application

Basic State - Any installation that becomes subject to 10 CSR 10-6.065(4) at any time following 24 months after May 13, 1996 shall file a complete operating permit application no later than thirty (30) days after commencement of operations.

Intermediate - Any installation that becomes subject to 10 CSR 10-6.065(5) at any time following the first 2 months after May 13, 1996 shall file a complete operating permit application no later than thirty (30) days after commencement of operations.

#### 3.2.1.3 Permit Renewal

Permit Renewal - File renewal application at least six (6) months before the date of permit expiration.

### 3.2.2 Complete Application

3.2.2.1 An application will be deemed complete if it provides all the information required in the General Operating Permit application form.

3.2.2.2 The application for renewal shall include the current permit number, the appropriate renewal fee, description of any permit revisions and permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

3.2.2.3 After receipt the permitting authority shall determine whether the application is complete and inform the applicant that it is complete within sixty (60) days after receipt of the application. If the permitting authority determines that the application is not complete, it shall inform the applicant promptly indicating the reasons the application is incomplete.

3.2.2.4 An installation which has submitted a timely and complete application may continue to operate without a permit from the date the application is determined to be subject to final action by the permitting authority on the application, provided that the applicant submits any requested additional information by the deadline established by the permitting authority.

### 3.3 Permit Renewal

Basic State and Intermediate General Operating Permits being renewed are subject to the same procedural requirements, including those for public participation, that apply to initial permit issuance.

### 3.4 Permit Expiration

Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted.

## **4. General Compliance/Enforcement Provisions**

### **4.1 Compliance Requirement**

The permittee must comply with the applicable requirements and all conditions of this permit. Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official.

If the permittee has indicated non-compliance with any applicable requirement, progress reports consistent with an applicable schedule of compliance shall be submitted to the Air Pollution Control Program including the following information.

Report Contents:

4.1.1 Dates for achieving the activities, milestones, or compliance required in the schedule.

4.1.2 An explanation of why dates were not or will not be met, and any preventive or corrective measures adopted.

### **4.2 Compliance Certification shall include the following:**

4.2.1 Identification of each term or condition of the permit that is the basis of the certification.

4.2.2 The permittee's current compliance status, as shown by monitoring data and other reasonably available information.

4.2.3 State whether compliance was continuous or intermittent.

4.2.4 Methods currently used to determine compliance status of the installation, and methods used during the reporting period if different from those currently being used.

4.2.5 Such other facts as the permitting authority may require to determine the compliance status of the source.

4.2.6 A requirement that all compliance certifications be submitted to the EPA administrator as well as to the permitting authority.

4.2.7 Additional requirements as may be specified pursuant to sections 114(a)(3) and 504(B) of the Act, and any other provisions as the permitting authority may require.

### **4.3 Noncompliance**

Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

### **4.4 Severability Clause**

The various requirements of this permit shall remain valid in the event of a challenge to any portions of the permit.

### **4.5 Property Rights**

The General Operating Permit does not convey any property rights of any sort, or any exclusive privilege.

### **4.6 Risk Management Plan**

The permittee only needs to verify the fact that the registering of such a plan has been complied with if they are subject to 112(r).

### **4.7 Public Threat**

Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported immediately.

## **5. Permit Reopening Provision**

This General Operating Permit may be reopened, revoked and reissued or terminated during its term, for cause.

## **6. Applicable Requirements**

All applicable requirements as they apply are described in Forms 5A and 5B. Emission units to which the applicable requirements apply are described on the Form 2s. The appropriate Form 5As and Form 5B are provided as an attachment to this permit. Applicable Form 2s are also included as an attachment to this permit.

## **7. Source-Specific Conditions**

Forms 4A and 4B summarize all existing and/or proposed source specific conditions. Forms 4A and 4B are included as an attachment to this permit, as applicable to the subject facility.

Voluntary conditions proposed by the installation on Form 4B need to include an example of the recordkeeping or monitoring requirements which will be used to demonstrate compliance with the proposed limiting condition.

## **8. Testing and Monitoring**

The administrator may require testing or monitoring, according to 114(a)(3) or 504(b) of the Act, sufficient to yield reliable data for the relevant time period that is representative of the installation's compliance with the permit. Recordkeeping requirements may be sufficient to show compliance with a specific regulation.

## **9. Monitoring Reporting**

- 9.1 Monitoring results shall be reported to the APCP enforcement section at least once every six months.
- 9.2 Permittee shall identify any deviations from required standards or limits and report such deviations within ten (10) days to the appropriate enforcement Section of the permitting authority. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
- 9.3 Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-.065 shall be submitted to the permitting authority either verbally or in writing within two (2) working days after the date on which the emission limitation is exceeded due to the emergency.

## **10. Public Threat**

Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.

If the commission or director determines that the permittee is engaging in any activity involving significant risk of air contamination that would constitute a clear and present danger to the public health, public welfare or the environment, the commission or director shall issue a written cease and desist order to said permittee to discontinue immediately such activity or discharge of air contaminants, provided the commission may countermand such order of the director. If the permittee continues the activity or discharge of such contaminants into the atmosphere, the commission or the director shall cause to be filed by the attorney general or other counsel in the name of the state, suit for a temporary restraining order, temporary injunction and permanent injunction.

## **11. Retention of Records**

- 11.1 All recordkeeping must be retained at the installation for a minimum period of five (5) years, and shall be made available immediately to representatives of the permit authority upon verbal request.
- 11.2 The permittee shall maintain a copy of this permit at this installation. A copy of this permit shall be placed on-file at each approved source no later than 30 days upon receipt from the Air Pollution Control Program.

## **12. Inspection and Entry**

- 12.1 The permittee shall allow authorized representatives of the permitting authority to enter, at all reasonable times, upon the permittee's premises for the purposes of inspecting or investigating any condition, records, or equipment, practices or operation regulated or required under this permit for the purposes of determining compliance with this permit. no person shall refuse entry or access, requested for the purposes of inspection under this provision, to an authorized representative of the permitting authority who presents appropriate credential, nor obstruct or hamper the representative in carrying out the inspection. Refusal of entry or access may constitute grounds for permit revocation and/or enforcement action.
  - 12.1.1 Enter upon the permittee's premises where the Basic or Intermediate State source or activity is located or conducted, or where records must be kept under the conditions of this permit;
  - 12.1.2 Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
  - 12.1.3 Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operation regulated or required under this permit; and
  - 12.1.4 Sample or monitor any substances or parameters at any location, during operating hours, for the purposes of assuring permit compliance.
- 12.2 The permittee shall furnish to an authorized representative of the permitting authority, immediately upon verbal request, any information that the representative may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit. The permittee may make a claim of confidentiality for information of records submitted under 10 SCR 10-6.065(6)(C).

## **13. Federally Enforceable Conditions**

All terms and conditions in this permit, including any voluntary provisions designed to limit an installation's potential to emit, are enforceable by the permitting authority, by the administrator or by citizens under section 304 of the Act.

The undersigned hereby executes this document.

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Effective Date

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Director  
Division of Environmental Quality